CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Nov. 27	Norfolk, Va.	Nov. 9
Nov. 27	Kings Mountain, N. C. Adv. Nov. 16 and 23.	Nov. 16
Nov. 27	St. Paul, Minn.	Nov. 23
Nov. 28	Mt. Prospect, Ill.	Nov. 23
Nov. 28	Brooklyn, N. Y.	Nov. 23
Nov. 29	San Juan, Porto Rico Adv. Oct. 12 to Nov. 23.	Oct. 19
Nov. 29	Bay St. Louis, Miss.	Nov. 9
Nov. 29	Phila., Pa.	Nov. 16
Dec. 1	San Juan, Porto Rico Adv. Oct. 19 to Nov. 23.	Oct. 19
Dec. 1	Cleveland, O.	Nov. 16
Dec. 1	Dillon, S. C.	Nov. 16
Dec. 2	Victoria, Tex.	Nov. 23
Dec. 4	Victoria, Tex.	Nov. 23
Dec. 5	Ponca City, Okla.	Nov. 23
Dec. 11	Monroe, Mich. Adv. Nov. 23.	Nov. 23
Dec. 12	Wheeling, W. Va Adv. Nov. 16 and 23.	Nov. 16
Dec. 19	Houma, La.	Nov. 23
Feb. 1	Spokane, Wash.	Nov. 16

SEWERS

Bids Close		See Eng. News-Record
Nov. 27	Saranac Lake, N. Y. Adv. Nov. 16 and 23.	Nov. 23
Nov. 28	Madison, Wis.	Nov. 23
Nov. 28	Springwells, Mich.	Nov. 23
Nov. 29	Brooklyn, N. Y.	Nov. 23
Dec. 7	Athol, Mass.	Nov. 16
Dec. 11	New Orleans, La. Adv. Oct. 12 to Nov. 23.	Oct. 12

WASTE DISPOSAL

Bids Close		See Eng. News-Record
Dec. 18	Allentown, Pa. Adv. Nov. 23.	Nov. 23

BRIDGES

Bids Close		See Eng. News-Record
Nov. 27	Glen Rose, Tex.	Nov. 23
Nov. 28	Little Rock, Ark.	Nov. 9
Nov. 28	Minnesota	Nov. 16
Nov. 28	Cambridge, Mass.	Nov. 16
Nov. 29	Phila., Pa. Adv. Nov. 2 to 23.	Nov. 2
Nov. 29	Georgia	Nov. 16
Nov. 29	Perry, Ga.	Nov. 23
Dec. 5	Cape May, N. J. Adv. Nov. 16 and 23.	Nov. 16
Dec. 5	Alabama	Nov. 16
Dec. 5	Jefferson, Tex.	Nov. 23
Dec. 6	Freehold, N. J. Adv. Nov. 16 and 23.	Nov. 16
Dec. 8	Seattle, Wash. Adv. Nov. 16 and 23.	Nov. 16
Dec. 9	Yankton, S. D.	Nov. 9
Dec. 12	Brunswick, Ga.	Nov. 9
Dec. 12	Alabama	Nov. 16
Jan. 23	Spokane, Wash	Sept. 21
Sept. 1, 1923	Sydney, New South Wales, Australia	Aug. 3

DAMS

Bids Close		See Eng. News-Record
Nov. 25	Bluefield, W. Va. Adv. Nov. 16 and 23.	Nov. 16

RAILWAYS

Bids Close		See Eng. News-Record
Dec. 4	Ontario	Nov. 23

EXCAVATION, DRAINAGE, IRRIGATION

Bids Close		See Eng. News-Record
Nov. 27	Maricopa, Ariz.	Nov. 16
Dec. 1	Owatonna, Minn.	Nov. 23

STREETS AND ROADS

Bids Close		See Eng. News-Record
Nov. 27	Washington, N. C.	Nov. 2
Nov. 27	Arma, Kan.	Nov. 16
Nov. 27	Girard, Kan.	Nov. 16
Nov. 27	Tavares, Fla.	Nov. 23
Nov. 27	Gainesville, Fla. Adv. Nov. 16 and 23.	Nov. 23
Nov. 27	Missouri	Nov. 23
Nov. 27	New York, N. Y.	Nov. 23
Nov. 28	Vermont Adv. Nov. 16 and 23.	Nov. 16
Nov. 28	Anamosa, Ia.	Nov. 16
Nov. 28	Louisiana	Nov. 16
Nov. 28	Minnesota	Nov. 16
Nov. 28	Union, S. C.	Nov. 16
Nov. 28	Connecticut Adv. Nov. 23.	Nov. 23
Nov. 28	Kaufman, Tex.	Nov. 23
Nov. 28	Newton, N. C.	Nov. 23
Nov. 29	Richmond Hill, N. Y.	Nov. 23
Nov. 29	Brooklyn, N. Y.	Nov. 23
Nov. 29	Oklahoma	Nov. 16
Nov. 29	Georgia	Nov. 16
Nov. 29	Ebensburg, Pa.	Nov. 23
Nov. 29	Oklahoma	Nov. 23
Nov. 30	Highland Park (Dallas P. O.), Tex.	Nov. 23
Dec. 1	Newberry, S. C.	Nov. 16
Dec. 1	Louisiana	Nov. 23
Dec. 2	Missouri	Nov. 23
Dec. 4	Earlington, Ky. Adv. Nov. 23.	Nov. 23
Dec. 4	Chatham, Va.	Nov. 23
Dec. 4	San Diego, Calif.	Nov. 23
Dec. 5	Albert Lea, Minn.	Nov. 9
Dec. 5	Alabama	Nov. 16
Dec. 5	Stockton, Calif.	Nov. 23
Dec. 5	Ridgeland, S. C.	Nov. 23
Dec. 5	Canton, S. D.	Nov. 23
Dec. 5	Jefferson, Tex.	Nov. 23
Dec. 5	Michigan	Nov. 23
Dec. 6	Camden, S. C.	Nov. 23
Dec. 7	Aiken, S. C.	Nov. 23
Dec. 7	Michigan	Nov. 23
Dec. 8	Pecos, Tex.	Nov. 23
Dec. 11	California	Nov. 23
Dec. 12	Alabama	Nov. 16
Dec. 12	St. Louis, Mo.	Nov. 23
Dec. 16	Mound City, Kan.	Nov. 23
Dec. 16	Quebec	Nov. 23
Dec. 19	Topeka, Kan.	Nov. 23
Dec. 22	Spokane, Wash.	Nov. 2
Dec. 22	Eldorado, Kan.	Nov. 23
Dec. 30	Quebec	Nov. 23
Dec. 30	Quebec	Nov. 2
Dec. 30	Quebec	Nov. 9
Dec. 30	Quebec	Nov. 16
Jan. 7	Duluth, Minn.	Sept. 28

INDUSTRIAL WORK

Bids Close		See Eng. News-Record
Dec. 1	Sheepshead Bay (Brooklyn P. O.), N. Y.	Nov. 23
Dec. 9	Pittsburgh, Pa.	Nov. 16

BUILDINGS

Bids Close		See Eng. News-Record
Nov. 25	Bowling Green, O.	Nov. 23
Nov. 27	Toledo, O.	Nov. 23
Nov. 27	New York, N. Y.	Nov. 23
Nov. 29	Baltimore, Md.	Nov. 23
Nov. 30	Smiths Falls, Ont.	Nov. 16
Dec. 1	Oil City, Pa.	Oct. 26
Dec. 1	Abilene, Tex.	Nov. 9
Dec. 4	Cleveland, O.	Nov. 23
Dec. 4	Freeport, N. Y.	Nov. 23
Dec. 4	Memphis, Tex.	Nov. 23
Dec. 5	Wichita Falls, Tex.	Nov. 23
Dec. 7	Corydon, Ia.	Nov. 23
Dec. 7	Lodi, Calif.	Nov. 23
Dec. 9	Port Washington, N. Y	Nov. 16
Dec. 14	Allentown, Pa.	Nov. 16
Dec. 15	Chisholm, Minn.	Nov. 23
Dec. 18	Bakersfield, Calif.	Nov. 16
Dec. 20	Binghamton, N. Y.	Nov. 23
Jan. 2	Olean, N. Y.	Nov. 9
Jan. 2	Duluth, Minn.	Nov. 23
Mar. 23	Shreveport, La.	Nov. 9

FEDERAL GOVERNMENT WORK

Bids Close		See Eng. News-Record
Nov. 25	Barges—Pittsburgh, Pa. Adv. Nov. 2 to 23.	Nov. 2
Nov. 27	Dredge Hull, etc.—Milwaukee, Wis. Adv. Nov. 2 to 23.	Nov. 2
Nov. 27	Dredging — Jacksonville, Fla. Adv. Nov. 2 to 23.	Nov. 2
Nov. 27	Remodeling — St. Louis, Mo.	Nov. 9
Nov. 28	Roads—California	Nov. 16
Dec. 1	Steel Hull — Pittsburgh, Pa. Adv. Nov. 9 to 23.	Nov. 9
Dec. 1	Barge—Montgomery, Ala.	Oct. 26
Dec. 1	Dredging—Honolulu, H. T.	Nov. 2
Dec. 2	Boilers—Memphis, Tenn. Adv. Nov. 2 to 23.	Nov. 2
Dec. 2	Barges—Memphis, Tenn. Adv. Nov. 2 to 23.	Nov. 2
Dec. 2	Machinery — Memphis, Tenn. Adv. Nov. 2 to 23.	Nov. 2
Dec. 4	Extension, etc. — Altoona, Pa.	Nov. 16
Dec. 4	Power Houses—Cape Henry, Va.	Nov. 9
Dec. 6	Repairs—Phila., Pa.	Nov. 16
Dec. 6	Pumping Units — Boise, Idaho	Oct. 19
Dec. 7	Dwellings—Huntington, W. Va.	Nov. 16
Dec. 11	Barges—Rock Island, Ill. Adv. Nov. 16 and 23.	Nov. 16
Dec. 11	Changes—Oakland, Calif. Adv. Nov. 23.	Nov. 23
Dec. 12	Hospital—Knoxville, Ia. Adv. Nov. 16 and 23.	Nov. 16
Dec. 13	Dredging—New York, N. Y.	Nov. 23
Dec. 14	Garage, etc.—San Diego, Calif.	Nov. 16
Dec. 14	Barges—Vicksburg, Miss. Adv. Nov. 16 and 23.	Nov. 16
Dec. 15	Dredging—Detroit, Mich. Adv. Nov. 16 and 23.	Nov. 16
Dec. 15	Maneuver Boat—Huntington, W. Va. Adv. Nov. 23.	Nov. 23
Dec. 18	Buildings, Electrical Work, etc. —Livermore, Calif. Adv. Nov. 23.	Nov. 23
Dec. 20	Barges—Milwaukee, Wis. Adv. Nov. 23.	Nov. 23
Dec. 20	Lock Gates — Pittsburgh, Pa. Adv. Nov. 23.	Nov. 23
Dec. 20	Excavating Cut-offs—Wilmington, Del. Adv. Nov. 23.	Nov. 23
Dec. 20	Repairs—San Diego, Calif.	Nov. 23
Dec. 20	Pier Extension—Puget Sound, Wash.	Nov. 23
Dec. 20	Riprapping Dike—Mare Island, Calif.	Nov. 23
Dec. 21	Breakwater—Phila., Pa. Adv. Nov. 23.	Nov. 23
Jan. 3	Piers—Pearl Harbor, H. T.	Nov. 16

MISCELLANEOUS

Bids Close		See Eng. News-Record
Nov. 27	Electrical Work, Plumbing, Heating, etc. — Johnstown, Pa.	Nov. 2
Nov. 27	Dock—Newark, N. J.	Nov. 16
Nov. 27	Fire Alarm, etc.—Richmond, Va.	Nov. 23
Nov. 28	Railings and Stairs—Phila., Pa.	Nov. 16
Nov. 28	Retaining Walls—Phila., Pa.	Nov. 16
Nov. 29	Pipe—Atlanta, Ga.	Nov. 23
Nov. 29	Refined Asphalt, etc.—Brooklyn, N. Y.	Nov. 23
Dec. 1	Creosote Oil—Phila., Pa.	Nov. 23
Dec. 4	Landscape Work—Redwood City, Calif.	Nov. 23
Dec. 4	Electrical Distribution System —Ridgway, S. C.	Nov. 23
Dec. 5	Gate Valves, etc.—New York, N. Y. Adv. Nov. 16 and 23.	Nov. 16
Dec. 6	—Traveling Crane—San Francisco, Calif.	Nov. 16
Dec. 18	Coal Handling Plant — Melbourne, Victoria, Australia	Sept. 21
Jan. 1	Transmission Line—Spokane, Wash.	Nov. 9

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Batavia—Defeated $30,000 bonds for new mains in various streets. Noted Aug. 24.

Pa., Wampum—Voted $15,000 bonds improving waterworks system.

N. C., Whiteville—Plans water and electric light systems. $80,000.

Fla., St. Petersburg—Dec. 5, to vote on $160,000 bonds extending waterworks system. R. E. Ludwig, dir. pub. utilities.

Ill., Libertyville—See "Sewers."

Ill., Nokomis—Postponed letting, Nov. 2, material and labor for 4 wells, 4,300 ft. 8 in. Class B c.i. mains, etc. Will readvertise. Taylor & Woltmann, 428 Unity Bldg., Bloomington, engrs. Noted Oct. 19.

Mo., St. Charles—Dec. 2 to vote on $18,000 bonds for mains, $25,000 for machinery, $16,000 for meters, etc., $3,500 for meter connections, $1,500 for cleaning mains and $2,000 for flow meters. A. L. Mullergren, 555 Gates Bldg., Kansas City, engr. Noted Oct. 5.

Waterworks (Continued)

Okla., Cyril—Soon receives bids water mains and other improvements. $31,000. M. Perryjohn, clk. V. V. Long & Co., Colcord Bldg., Oklahoma City, engrs. Noted Oct. 26.

Okla., Morris—Having surveys made supply site, mains, etc. Cost to exceed $25,000. H. M. Olmsted & Co., Tradesman Bank Bldg., Oklahoma City, engrs.

Okla., Skiatook—Had plans prepared new mains. $17,000. Hughes Eng. Co., Cole Bldg., Tulsa, engr.

Okla., Woodward—Plans election in December to vote on $175,000 bonds for waterworks and mains. Black & Veatch, 701 Mutual Bldg., Kansas City, Mo., engrs. Noted Aug. 31.

Colorado—State voted $6,000,000 highway bonds. L. D. Blauvelt, Denver, highway engr.

Calif., Pasadena—Bd. Dirs. plan $550,000 bonds issue ($300,000 of which will be used to purchase plants and equipment of Precipice Canyon and Pasadena Consolidated Water Companies), balance to extend present water mains and make further developments.

Ont., Haileybury—Town retained F. Barber and associates, engrs., 40 Jarvis St., Toronto, to report on fire protection scheme, incl. new pumps, electric and possibly gasoline driven turbine fire pumps. $30,000.

BIDS DESIRED

N. Y., Brooklyn—Nov. 28, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains and appurtenances in Colonial Rd., Hendrix and 35th Sts., Blake, Marine and 2nd Aves., here.

S. C., Ridgeway—See "Miscellaneous."

La., Houma—Dec. 19, by Mayor and Bd. Aldermen, waterworks system, incl. daily capacity, 1,000,000 gal. pumping plant, mechanical filtration plant 1,000,000 gal. 10,000,000 gal. earthen storage reservoir. 800 tons c.i. mains, 1 mi. transmission line, brick power station and rein.-con. filter structures. D. Angers, city clk. G. W. Fuller, 170 Bway., New York City, consult. engr.

Mich., Monroe—Dec. 11, by F. M. Kressbach, city clk., furnishing and installing pumping station equipment. Hoad, Decker, Shoecraft & Drury, Ann Arbor, consult. engrs.; adv. this issue.

Ill., Mt. Prospect—Nov. 28 for waterworks. $60,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engrs.

Ia., Chariton—Nov. 27, for water purification plant extensions, incl. 2 filters, building, and settling basin. W. M. Householder, clk. Merton G. Hall Co., Centerville, engrs.

Minn., St. Paul—Nov. 27, by H. W. Austin, city purch. agt., gate valves and service connection boxes for Water Dept.; about 3,000 stop boxes and 500 gate boxes. O. Claussen, city engr.

Tex., Pampa—Taking bids installing extensive waterworks distribution system, 14,700 lin. ft. 6-8 in. Class B. c.i. pipe 14,000 lin. ft. 2 in. standard galvanized w.i. pipe, hydrants, gate valves, etc. A. H. Doucette, city engr.

Tex., Victoria—Dec. 2. one 300,000 gal. water tower. Address City Engineer.

Tex., Victoria—Dec. 4, drilling two 10 in. wells. Address City Engineer.

Tex., Wichita Falls—A. Lawton, city mgr., receiving bids 8,000 ft. mains. M. R. Rugely, city engr.

Okla., Ponca City—Dec. 5, by City clerk, furnishing and erecting 500,000 gal. water tank and tower. P. R. Dunton, Ponca City, engr.

BIDS RECEIVED

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, opened bids Nov. 17, mains in (1) Ditmars Ave. (2) Griffith St., here, from F. Paino, 572 1st St., Brooklyn, (1) $7,762 (2) $5,805; Tuohy & Upton, 98 Main St., Flushing, (1) $10,000. Noted Nov. 9.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., opened bids Nov. 17 mains in Bogart Ave., Bronx Boro, from C. De Blasio, 339 7th Ave., Mt. Vernon, $21,000; Angelo & Demicco, $34,000; Paladino Contg. Co., 437 East 120th St., $34,975. Noted Nov 9.

O., Cleveland Heights (Warrensville P. O.)—For c.i. mains in (1) Allston Rd. (2) Navahoe Rd. (3) Beverly Rd. (4) Bluestone Rd. (5) Cambridge, Sylvania, Ardmore, Erieview and Rosemouth Rds., from Iafornaro Constr. Co., 3218 Murray Hill Rd., Cleveland, (1) $7,868 (4) $4,156; B. H. Whittaker, 343 The Arcade, Cleveland, (1) $8,035 (3) $4,357; Salem & George Bros., 237 Bradley Court, Cleveland, (2) $5,178 (3) $4,077 (5) $27,397; A. Marra, Ulmer Bldg., Cleveland, (2) $5,462 (5) $29,251; N. Carroccio, Benwood Ave., Cleveland, (4) $4,924.

Wis., Cedarburg—Furnishing two hundred ⅝ in. and ¾ in. water meters, from Badger Meter Mfg. Co., 841 30th St., Milwaukee, Model A $10; Worthington Pump Co., Cudahy St., Milwaukee, Model G $8.50; Buffalo Meter Mfg. Co., 2917 Main St., Buffalo, N. Y., $8.77 and $7.87 respectively. Noted Oct. 26.

Calif., Ventura—Mutual Water Companies constructing concrete pipe line, from Fowler & Myers, San Fernando, $69,438; United Concrete Pipe Co., Montalvo, $79,435; Boyd & Tellyer, San Diego (street address not available), $91,607.

CONTRACTS AWARDED

Fla., Tampa—Temple Terraces, Inc., 801 Citrus Exch. Bldg., 8,200 ft. 6 in. and 6,600 ft. 4 in. c.i. pipe, to Central Fdry Co., 41 East 42nd St., New York City; one 250 gal. main supply pump, etc., to Allis-Chalmers Mfg. Co., West Allis, Wis. Noted Oct. 5.

Ill., Marshall—Removing old pumps from pumping station, new concrete floor, waterproofing walls and floors, furnishing and installing 2 motor driven triplex pumps, 350 g.p.m., furnishing and erecting about 1.8 mi. transmission line incl. transformers and lighting fixtures from power house to pumping station, to Chuse Engine and Mfg. Co., 1411 Chemical Bldg., St. Louis, Mo., $13,808. Noted Oct. 26.

Minn., St. Paul—Water Dept., 4 line tanks and agitators, to St. Paul Fdry. Co., Como and Mackubin Aves., $2,095; 800 cu.yd. gravel, to J. L. Shiely Co., 305 Dakota Bldg.; 1,500 cu.yd. special filter sand, to G. C. Lauer, foot of Chestnut St., $4.48 per cu.yd. Noted Oct. 26.

Tex., Marlin—For 562.5 ton 12 in. c.i. pipe, to Natl. Cast Iron & Fdry. Co., Tarrant City, Ala., $51 per ton f.o.b. Marlin. Noted Oct. 19.

Colo., Boulder—Rein.-con. reservoir 8,000,000 gal. capacity, to Phelps & Son, Knoxville, Ia. $57,400. Noted Oct. 26.

Sewers

PROPOSED WORK

N. Y., Rochester—Plans sewage disposal plant in Hopper Hollow Sect., $50,000; sewers and walks in Crossman Terrace, $31,300. C. A. Poole, city engr.

N. Y., Rochester—See "Sewers."

Pa., Harrisburg—Voted $150,000 bonds for sewers. M. B. Cowden, city engr.

Pa., Pottstown—Voted $200,000 for sewage disposal plant.

Fla., St. Petersburg—Dec. 5, to vote on $463,000 bonds for storm and sanitary sewers. E. C. Garvin, St. Petersburg, engr. Noted Oct. 19.

O., Akron—Voted $3,000,000 bonds trunk sanitary and storm sewers in various parts of city. J. E. Root, Delaware Bldg., engr. Noted Aug. 31.

Ill., Libertyville—Making plans sewer and water extensions. $25,000. Kelker, De Leuw & Co., 111 West Washington St., Chicago, engrs.

Minn., Tracy—Having plans prepared sewage disposal plant. $28,000. C. L. Pillsbury Co., 1200 2nd Ave. S., Minneapolis, engrs.

Tex., Cleburne—See "Streets and Roads."

Okla., Pauls Valley—Voted $50,000 bonds for storm sewers. V. V. Long & Co., Colcord Bldg., Oklahoma City, engrs.

Colo., Denver—Making plans South Side Special Sanitary Sewer 7, incl. 27,000 ft. 8 in. vitr. pipe. $34,811. A. K. Vickery, City Hall, engr.

Calif., Morgan Hill—Having plans prepared sewage disposal plant. $50,000. C. C. Kennedy, Call Bldg., San Francisco, engr. Noted June 29.

Ont., Toronto—York twp. plans complete sewerage system, incl. vitr. tile pipe with some sort of sewage disposal works. Two alternative schemes are proposed, one at cost of $846,170, other $1,050,425. F. Barber and associates, 40 Jarvis St., engrs.

BIDS DESIRED

N. Y., Brooklyn—Nov. 29, by E. Riegelmann, boro pres., Boro Hall, sewers in East 17th St. between Ave. Q and Ave. R, East 37th St. between Ave. K and Ave. L, Riverdale Ave. between Wyona and Vermont Sts., Brooklyn Ave. from Farragut Rd. to property line of Flatbush Water Works, 15th Ave. between 49th and 50th Sts.; sewer basins in Ocean Ave. west side about 26 ft. north of north curb line of Ave. J and east side about 46 ft. south of south curb line of Ave. J, southwest corner of Snyder and Brooklyn Aves., northeast and southeast corners of 87th St. and Narrows Ave.

N. Y., Saranac Lake—Nov. 27, by Sewer and Water Bd., furnishing two 3,000,000 gal. horizontal double-acting duplex plunger type pumps, and chain drive equipment for each pump. J. L. Collins, consult. engr.; adv. this issue.

S. C., Ridgeway—See "Miscellaneous."

Mich., Springwells—Nov. 28, by B. P. Esper, village clk., 4,878 ft. sewer in Sect. 20, incl. 3,000 ft. 36 in. and 1,800 ft. 66 in. brick, concrete or segment block pipe, 2,463 ft. sewer in Sect. 21, incl. 2,000 ft. 27 in. and 500 ft. 72 in. brick, concrete or segment block pipe. A. Roth and C. W. Hubbell, 2348 Penobscot Bldg., Detroit, engrs.

Wis., Madison—Nov. 28, by Wisconsin Memorial Hospital Assn., Capitol Bldg., sewage disposal plant, incl. all equipment. J. G. S. Mack, Capitol Bldg.; engr.

BIDS RECEIVED

O., Cleveland Heights (Warrensville P. O.)—For segmental and tile block sewers in (1) Allston Rd. (2) Navahoe Rd. (3) Beverly Rd. (4) Bluestone Rd. (5) Cambridge Rd. (6) Sylvania Rd. (7) Ardmore Rd. (8) Erieview Rd. (9) Rosemond Rd. (10) Elmwood Rd., from N. Carroccio, Benwood Ave., Cleveland, (1) $18,452 (4) $20,585; Iafornaro Constr. Co., 3218 Murray Hill Rd., Cleveland, (1) $19,749 (4) $21,326; A. Marra, Ulmer Bldg., Cleveland, (2) $7,976 (5) $27,284 (6) $21,153 (7) $6,002 (8) $5,450 (9) $7,138 (10) $9,202; Salem & George Bros., 237 Bradley Court, Cleveland, (2) $8,370 (3) $13,278 (5) $26,768 (6) $22,516 (7) $6,553 (8) $5,421 (9) $7,411; B. H. Whittaker, 343 The Arcade, Cleveland, (3) $13,534; Hadded-Mall Co., Schofield Bldg., Cleveland, (10) $11,346.

CONTRACTS AWARDED

N. J., Hillside—Township Clerk, 12,000 ft. 12-45 in. tile and concrete sewers, 75 manholes and 65 catch basins, to J. Miele, 21 Hillcrest Terrace, East Orange, $99,989. Noted Nov. 2.

O., Cleveland—Sewer in Cedar Ave. from East 22nd to East 30th Sts., to Manson Co., 343 The Arcade, $20,594; Cedar Ave. from East 30th to East 40th Sts., to Amato Constr. Co., 343 The Arcade, $37,536. Noted Nov. 16.

O., Cleveland—Sewer in Fairmount Rd., to Gallagher Burke Constr. Co., 1339 Irene Ave., Lakewood, $28,151. Noted Nov. 16.

Mich., Ferndale—Lateral sewer in alley between Vester and Rockwell Aves., to L. Kovorkian, 555 Paddock Bldg., Pontiac, $3,040; sewer in Hazelhurst Ave. W. and lateral sewer in block bounded by Hilton Rd., Woodward, Silman and Jewell Aves., to Hammen & Co., 516 Garfield Bldg., Detroit, $7,996; lateral sewer in alley between Breckenridge, Cambourne and Michelson Aves., to Cappello & Fatore, 2161 Hale St., Detroit, $7,900; laterals in Saratoga Ave., blocks between Vester, Rockwell and Bermuda Aves., and Wolcott, Burdette, Lewiston and Drayton Aves., to Halpin & Reilly, 304 West Bancroft St., Toledo, O. $11,277.

Mich., Grosse Pointe Farms (Detroit P. O.)—For 3,500 ft. vitr. crock sewer in Kerby Rd. from Ridge Rd. to Black Marsh Ditch, to V. Teetaert, 448 St. Clair Ave., Detroit, $25,000. Noted Oct. 12.

Minn., Amboy—Sanitary sewerage system and disposal plant, 14,200 ft. 8-12 in. vitr. tile sewer, 40 manholes, 1 Imhoff tank, sludge bed and outlet, to Gedney & Murphy, 211 Lumber Exch. Bldg., Minneapolis. $18,000. Noted Oct. 19.

Colo., Denver—For 36,040 ft. 8-10 in. vitr. pipe and 134 manholes, in Berkeley Special Sanitary Sewer Dist., to Dennis Gibbons & Son, 1059 Downing St., $35,417. Noted Oct. 26.

Calif., Madera—Constructing sewage disposal plant, to L. R. Adell, Madera, $32,292. Noted Nov. 16.

Waste Disposal

PROPOSED WORK

Pa., Harrisburg—Voted $85,000 bonds for 1 story and basement, 44 x 54 ft. incinerator, 85 ton daily capacity. M. B. Cowden, city engr. Noted Oct. 26.

Fla., St. Petersburg—Dec. 5, to vote on $125,000 bonds constructing new incinerator and repairing old one. E. C. Garvin, St. Petersburg, engr. Noted July 6.

Mo., St. Louis—Soon takes bids three 80 ton unit garbage incinerators, fireproof construction. $225,000. C. E. Fisk, City Hall, engr. Noted Feb. 16.

Wash., Spokane—Preparing plans garbage incinerator, 50-60 ton daily capacity. Building and chimney completed. $30,000. Address H. Coe, supt. municipal garbage plant.

Ore., Portland—Plans to sell $200,000 bonds for garbage incinerator under 4 separate proposals, (1) addition of 100 ton per day to present plant, (2) erection of 100 ton plant at some other point, (3) erection

Waste Disposal (Continued)

of 200 ton unit at present plant, (4) erection of 200 ton plant at some other point, present plant has capacity of 150 tons per day. O. Laurgaard, city engr., preparing plans. C. A. Biglow, comr. Pub. Affairs.

BIDS DESIRED

Pa., Allentown—Dec. 18, by M. W. Gross, mayor, Room 301, City Hall, refuse incinerator. H. F. Bascom, city engr.; adv. this issue.

Calif., Redwood City—See "Miscellaneous."

Bridges

PROPOSED WORK

Pa., Johnstown—Voted $400,000 bonds for bridges. H. L. Wilson, city engr.

North Carolina—State Hy. Dept., Raleigh, plans steel or rein.-con. bridge over Neuse River, State Project 237, Johnston Co., $25,000, over Neuse River, State Project 487, Wake Co., $25,000; rein.-con. bridges on Federal Aid Projects 49 and 60, Lenoir Co., $25,000. C. M. Upham, state highway engr.

North Carolina—State Hy. Dept., Raleigh, having plans prepared and soon takes bids constructing Edwards Ferry Bridge over Roanoke River, near Scotland Neck, Project 138, Halifax and Northampton Counties, steel draw span and number short rein.-con. or creosoted timber spans. $200,000 to $275,000. C. M. Upham, state highway engr.

Fla., St. Petersburg—Dec. 5, to vote on $79,000 bonds constructing several concrete arch bridges across Booker Creek. C. E. Garvin, St. Petersburg, engr.

Ia., Northwood—Worth Co. had plans prepared 49 culverts and extensions, 4 I beam and 3 pony truss bridges, 1,973.8 cu.yd. rein.-con., 85.85 ton steel, 124,095 lb. reinforcing, etc. $59,538. Iowa Hy. Comn., Ames, engrs.

Ia., Sigourney—Keokuk Co. had plans prepared 28 box and circular culverts and extensions, 1 deck girder and 1 slab bridge, 1,045.8 cu.yd. rein.-con., 420 lb. steel, 77,475 lb. reinforcing, etc. $26,920. Iowa Hy. Comn., Ames, engrs.

Minnesota—State Hy. Dept., St. Paul, plans Bridge 3921 over Straight River, and Bridge 3940 over Chicago, Rock Island & Pacific R.R., both steel and concrete, in Owatonna, Steele Co., $28,000 and $25,000 respectively; Bridge 3945 over Minnesota River, 500 ft., steel and concrete, in LeSueur Co., $50,000. J. T. Ellison, St. Paul, state bridge engr.

Minn., Brainerd — Crow Wing Co. and State, having plans prepared bridge on State Rd. 8, over Mississippi River, two 60 ft. steel spans, one 14 ft. steel centre span, 2 concrete piers, 2 concrete abutments. $30,000. W. M. Murphy, Brainerd, and Eng. Dept., State Hy. Dept., 1246 University Ave., St. Paul, engr.

Ont., Brantford—Having plans prepared rein.-con. bridge over Lorne St., central arch 140 ft. long, 2 end arches 135 ft. Election in January to vote on $335,000 by law. T. H. Jones, City Hall, engr. Prices wanted on all materials.

BIDS DESIRED

S. C., Ridgeland—See "Streets and Roads."

Ga., Perry—Nov. 29, by State Hy. Dept., Atlanta, 152 ft. concrete bridge, Houston Co., bids only on basis of state furnishing cement f.o.b. cars nearest railroad station. W. R. Neel, Atlanta, highway engr.

Missouri—See "Street and Roads."

Tex., Glen Rose — Nov. 27, by R. L. Bryan, judge Somerville Co., 2 steel and concrete bridges over Paluxy Creek, near here. $31,500. H. J. Cox, co. engr.

Tex., Jefferson—Dec. 5, by E. B. Lewis, judge Marion Co., 470 ft. bridge, concrete approaches, 150 ft. steel truss and sixteen 20 ft. concrete slab spans, over Big Cypress Bayou on State Highway 8. $46,750. T. B. Warden, co. engr.

California—See "Streets and Roads."

BIDS RECEIVED

New Jersey—State Hy. Dept., Trenton, opened bids Nov. 15, concrete and steel bridge with two 45 ft. spans, 30 ft. roadway, at M.P. 23.8 over north branch of Raritan River, Route 16, in municipalities of Bridgewater and Bedminster, Somerset Co., from Eng. Constr. Corp., Montclair, $32,750; Kolyn Constr. Co., Commonwealth Bldg., Trenton, $33,677; D. B. Hoover, Pottstown, Pa., $35,700. Noted Nov. 2.

Ia., Greenfield—Supervs. Adair Co., one 80 x 24 ft. steel truss bridge with two 30 ft. I beam approach spans, 23 box culverts and extensions, on Primary Rd. Project 24, from F. W. Kemp, Greenfield, $30,275; Des Moines Eng. & Constr. Co., Polk Bldg., Des Moines, $31,310; F. E. Marsh & Co., Jefferson, $32,980.

Colo., Denver—Foundation for 16th St. Bridge from Blake to Platte Sts., furnishing all materials, (except cement) labor, etc., from F. P. Varnum, 2035 East 18th Ave., $58,402; F. Kirchhof Constr. Co., 718 Lawrence St., $61,407; P. Seerie, Interstate Trust Bldg., $81,669. Noted Nov. 9.

CONTRACTS AWARDED

North Carolina — State Hy. Dept., Raleigh, rein.-con. bridges and culverts on State Project 152, Hyde Co., to O. A. Mann & Co., La Grange, Ga., $59,369; on State Project 133, Gates and Pasquotank Counties, to Pittsburg-Des Moines Steel Co., Curry Bldg., Pittsburg, Pa., $34,483; on State Project 254, Pitt and Lenoir Co., to Roanoke Iron & Bridge Wks., Roanoke, Va., $66,541. Noted Nov. 2.

Fla., Milton—See "Streets and Roads."

Ia., Carroll—Carroll Co. 240 ft. steel and concrete bridge, (3 spans), Sect, 35, Union Twp., to Lundgren Reis Co., 65 College Ave., Des Moines, $29,250.

Tex., Ft. Worth—Tarrant Co. concrete girder bridge over Mary Creek on State Highway 16, three 40 ft. spans, to Hamer Constr. Co., Ft. Worth, $27,061; concrete slab over Little Fossil Creek, on State Highway 40, six 10 ft. spans, also concrete slab over Walnut Creek, State Highway 34, nine 20 ft. spans, to J. D. Fawks, Ft. Worth $5,114 and $15,727, respectively. Noted Oct. 26.

Wash., Everett—See "Streets and Roads."

Calif., Hopton (Snelling, P. O.)—Yosemite Valley R.R., Merced, rebuilding wooden approaches to bridge across Merced River, here, creosoted piles to be driven, to replace wooden piles in place, to Healy-Tibbitts Constr. Co., 9 Main St., San Francisco. $50,000.

Railways

PROPOSED WORK

Utah—Los Angeles and Salt Lake R.R. plans 32 mi. road from Lund to Cedar City. $800,000. F. Strong, Salt Lake City, div. engr. R. L. Huntley, Omaha, Neb., ch. engr.

Ontario—Temiskaming & Northern Ontario Ry., North Bay, having surveys and estimates prepared diverting main line, so as to pass through Iroquois Falls, plans include 20-40 mi. new line at $50,000 per mi.

BIDS DESIRED

Ontario—Dec. 4, at office H. T. Hazen, acting ch. engr. Canadian Natl. Rys., 407 Old Union Sta., Toronto, 29½ mi. railroad diversion near Nakina, incl. grading, clearing and grubbing culverts, timber bridges, etc. $1,500,000. A. F. Stewart, 407 Old Union Sta., Toronto, ch. engr.

CONTRACT AWARD

West Virginia—Norfolk & Western Ry., N & W Bldg., Roanoke, Va., double tracking railway from Bluestone to Ruth, to Walton Constr. Co., Roanoke, Va. Engrs. est. $150,000.

Excavation, Drainage, Irrigation

PROPOSED WORK

Fla., Bradentown—Having surveys made excavating from Manatee River and filling in about 7 acres. Election soon to vote on $50,000 bonds. Kirley & Myler, Bradentown, engrs.

Ill., Lincoln — Comrs. Upper Salt Creek D.D., Logan Co., making plans and take bids about Jan. 1, excavating 1,500,000 cu. yd. $195,000. Kelker, De Leuw & Co., 111 West Washington St., Chicago, engrs.

Minn., Redwood Falls — Redwood and Brown Counties having plans prepared Judicial Ditch 24, 7,600 lin.ft. open ditch, 17,490 cu.yd. excav., 79,490 lin.ft. 6-30 in. tile. $51,480. F. B. Forbes, Redwood Falls, engr.

Wash., Newport—Marshall Lake Power & Land Co. plans 5,000 acre development, concrete and wood flume, concrete ditch, and 100 ft. dam, 6 ft. high, at Marshall Lake. $200,000. W. H. Wright, supt.

Ont., Westboro—Nepean Twp. plans land drainage system, 300,000 cu.yd. clay excav. $135,000. Patterson & Bryne, 72½ Sparks St., Ottawa, engrs.

BIDS DESIRED

Minn., Owatonna—Dec. 1, by G. Griffin, aud. Steele Co., Judicial Ditch 12. 65,052 lin. ft. 6-32 in. tile, 2 timber bridges, 5 floodwater control structures, 1 rein.-con. headwall, 58 surf water inlets. $30,000. J. H. Severson, Albert Lea, engr.

BIDS RECEIVED

Calif., Tracy—Naglee-Burk Irrrigation Dist., will build 6,476 lin.ft. concrete canals, 9.2 mi. drainage laterals, 2,600 lin.ft. main drainage canal, 1,800 ft. 18 in. rein.-con. pipe, rein.-con. superstructure to house pumping machinery equipment. Contrs. 2 and 3, by day labor. Former bids rejected. W. D. Harrington, Tracy, engr. Noted Nov. 16.

CONTRACTS AWARDED

Ill., Carrollton—Comrs. Keach Drainage and Levee Dist., grading, levee repair and cleaning out ditches to W. E. Callahan Constr. Co., Great Southern Life Bldg., Dallas, Tex., 376,000 cu.yd. excav. $0.1848 per cu.yd.; grading and levee construction, to McWilliams Dredging Co., 332 South Michigan Ave., Chicago, $0.1695 per cu.yd. Noted Oct. 19.

Minn., Minneapolis—Bd. Park Comrs., City Hall, dredging Lake Calhoun and filling lowlands and neighboring boulevards, 85,500 cu.yd. sand shore dykes, 264,400 cu. yd. sand fill, 312,200 cu.yd. mud fill, to Minneapolis Dredging Co., 514 Lumber Exch. Bldg., $148,551. Noted Nov. 2.

Streets and Roads

PROPOSED WORK

Massachusetts — State Hy. Dept., State House, Boston, having surveys made 20 mi. highway through Blanford, Otis and New Boston, bituminous macadam, $400,000.-$500,000. State Hy. Dept., State House, Boston, engrs.

N. Y., Mayville—Chautauqua Co. plans concrete paving 3.25 mi. Busti-Sugar Grove Rd., 16 ft. $95,818. S. E. Fitch, Westfield, co. engr. Address Bd. Supervs.

N. Y., Rochester—Plans extending Ruggles St. $4,000; asphalt paving Harvard St. $8,500, Putnam St. $8,100, Franklin St. $5,000. C. A. Poole, city engr.

N. J., Princeton—Princeton Battle Monument Assn., preparing plans 11,450 sq.yd. waterbound macadam pavement. Sincerbeaux & Moore, Amer. Mechanic Bldg., Trenton, engrs.

Pa., Avoca—Plans paving McAlpine St. and regrading Grove St. $60,000.

Pa., Erie—Erie Co. voted $1,000,000 bonds for improving Erie-Wattsburg Rd., Erie-Albion Rd., Fairview-Franklin Center Rd., East Lake Rd., and North East-Greenfield Rd. F. Hill, co. engr.

Pa., Harrisburg—Voted $50,000 for paving work. M. B. Cowden, city engr.

Pa., Johnstown—Voted $400,000 bonds for paving work and $450,000 for repaving work. H. L. Wilson, city engr.

Va., Ft. Myer Heights—Arlington Co. plans $500,000 bond issue to construct system of county roads to connect with State Highway System.

North Carolina — State Hy. Dept., Raleigh, plans grading and concrete or asphaltic paving 4 mi. road from end of Project 236 to Smithfield, State Project 237, Johnston Co. $110,000. C. M. Upham, state highway engr.

N. C., Greensboro—Guilford Co. plans constructing 2 mi. old Pleasant Garden Rd., some type of hard surface; resurfacing 1.1 mi. topsoil road, 20 ft. wide. $60,000. W. C. Boren, Chn. Bd. Co. Hy. Comn.

Fla., Bradentown—Having surveys made paving various streets, shell, oil treated, asphalt block, and shell, untreated. Election soon to vote on $50,000 bonds. Kirley & Myler, Bradentown, engrs.

Ala., Northport—City and State having plans prepared grading and paving ½ mi. Main St. from River Bridge to Byler Rd., 36 ft. $50,000. Engineer not selected.

Mich., Detroit — Had plans prepared grading and paving 14 alleys, 20,300 sq.yd. one course 6 in. concrete, with 2 x 6 in. retaining plank sides. Total cost $53,270. J. W. Reid, city engr.

Ill., Libertyville—making plans and takes bids about May 1, paving various streets. $150,000. Kelker, De Leuw & Co., 111 West Washington St., Chicago, engrs.

Ill., Lyons—Making plans paving various streets. 600,000. Kelker, De Leuw & Co., 111 West Wasihngton St., Chicago, engrs.

Ill., Riverside — Making plans paving various streets. $30,000. Kelker, De Leuw & Co., 111 West Washington St., Chicago, engrs.

Ia., Clinton—Plans paving, curbing, and guttering various streets. $80,000. Currie Eng. Co., Webster City, engrs.

Ia., Council Bluffs—Plans resurfacing, and brick repaving on various streets $50,000. E. E. Stepman, city engr.

Ia., Mt. Vernon—Plans paving 6 blocks Main St., various types. $25,000. C. M. Hartung, clk.

Streets and Roads (Continued)

Kan., Frontenac—Making plans paving 10,000 yd. various streets, brick or concrete, concrete curb and gutter. A. E. Archer & Co., 612 New England Bldg., Kansas City, Mo., engrs.

Kan., Mound City—Comrs. Linn Co. soon take bids hard surfacing 3 mi. La Cygne-Pleasanton-Prescott Rd., Project 132, 18 ft., $100,000; 3 mi. La Cygne-Pleasanton-Prescott Rd., Project 109 A, 18 ft., concrete, brick, bituminous macadam or gravel on completed grade, $100,000. Kansas Eng. Co., Topeka, engrs.

Tex., Brownsville — Cameron Co. had plans prepared concrete paving various roads. $400,000. W. O. Washington, Brownsville, engr.

Tex., Cleburne—Plans paving 48,000 sq. yd. North and South Main Sts., also storm sewer work. $175,000. R. O. Whiteaker, city engr.

Tex., Crockett—Houston Co., making plans grading, gravel surfacing and bridging 7.2 mi. State Highway 21, 16 ft. $124,083. G. W. Courter, co. engr.

Tex., Dallas—Having plans prepared paving 50,000 sq.yd. Turtle Creek Blvd., bituminous macadam. $50,000. G. D. Fairtrace, city engr.

Tex., Laredo — Webb Co. making plans grading, paving, curbing, guttering, etc., Main and principal streets. $450,000. Bond issue of $150,000 voted, other two-thirds to be financed by property owners. S. F. Crecelius, city engr.

Okla., Healdton—Plans paving business and resident districts. Towell & Harris, Oklahoma City, engrs.

Okla., Pauls Valley—Voted $50,000 bonds constructing various roads. V. V. Long & Co., Colcord Bldg., Oklahoma City, engrs.

Colo., Denver—Making plans paving 11 blocks in Washington Park Paving Dist. 1, 30 ft., 15,500 sq.yd. asphalt. $31,770. A. K. Vickery, City Hall, engr.

Calif., Fresno—Had plans prepared improving San Pablo and M Sts. between Merced and Divisadero Sts., 100,375 sq.ft. grading, 92,840 sq.ft. asphaltic pavement, 6,920 sq.ft. concrete gutter, 3,725 lin.ft. concrete curb, etc. W. Stranahan, city engr.

Calif., San Diego—Had plans prepared paving Chatsworth Blvd., Lytton and Curtis Sts., 3,386 cu.yd. 1½ in. warrenite on 2½ in. asphaltic concrete, 342 cu.yd. 2 in. single course warrenite. F. A. Rhodes, city engr.

Calif., San Diego—Had plans prepared paving Silverado, Torrey Rd. and Ivanhoe Ave., 7,112 sq.yd. 5 in. concrete, 1,256 lin.ft. cement curbing, 6,322 sq.ft. cement sidewalk; 65th, 69th and Klauber Sts., 5,979 sq. yd. 1½ in. bituminous macadam, 5,610 cu.yd. excav. F. A. Rhodes, city engr.

Calif., San Diego—Plans paving, etc., Ivy St. from India St. to Balboa Park, 60 ft., 76,098 sq.ft. 4 in. cement concrete paving, 63,035 sq.ft. 1½ in. asphaltic concrete wearing surface on 2½ in. bituminous base, 314 lin. ft. cement concrete curb, 1,809 sq.ft. cement concrete sidewalk, etc. F. A. Rhodes, City Hall, engr.

Ontario—Dept. Pub. Highways, Parliament Bldgs., Toronto, having preliminary estimates made for 150 mi. Blue Water Highway from Windsor to Owen Sound, concrete or macadam. $2,000,000. G. Hogarth, ch. engr.

BIDS DESIRED

Connecticut—Nov. 28, by C. J. Bennett, state hy. comr., 12 Washington St., Hartford, paving Lebanon Rd. in Franklin, waterbound macadam; State St. in Hamden, rein.-con.; Cornwall Hollow Rd. in Cornwall, native stone macadam; adv. this issue.

N. Y., Brooklyn—Nov. 29, by E. Riegelmann, boro pres., Boro Hall, paving roadway of Elbert Lane from Jamaica Ave. to Fulton St., permanent asphalt on 6 in. concrete; grading, curbing and flagging 78th St. from 15th to 16th Aves., Ave. I from East 28th St. to Nostrand Ave.; laying cement sidewalks on west side of Flatbush Ave. between Fillmore Ave. and Ave. T.

N. Y., New York—Nov. 27, by J. Miller, pres. Manhattan Boro, Municipal Bldg., curbing, recurbing, flagging, reflagging and paving roadway of Pleasant Ave. from 123rd to 124th Sts., roadway of 9th Ave. from northerly side of 209th St. to southerly side of 210th St., roadway of West 192nd St. from St. Nicholas to Wadsworth Aves., roadway of West 173rd St. from St. Nicholas to Fort Washington Aves., all permanent asphalt on concrete; roadway of West 190th St. from Wadsworth Ave. to Wadsworth Terrace, Wadsworth Terrace for width of 20 ft. west of easterly curb line from southerly building line of West 190th St. to point about 182 ft. northerly therefrom, Wadsworth Terrace for width of 20 ft. west of easterly curb line from point about 182 ft. north of southerly building line of West 190th St. to point about 294 ft. northerly therefrom, permanent granite block on concrete.

N. Y., Richmond Hill—Nov. 29, by Park Bd. at office Dept. Parks, Municipal Bldg., New York, improving main drive in Forest Park from Woodhaven Ave. to Union Turnpike, here. F. D. Gallatin, pres.

Pa., Ebensburg—Nov. 29, by Cambria Twp. Comrs., c/o H. T. Jones, controller Cambria Co., reconstructing 16,136 lin.ft. Wilmore Plank Rd. from Wilmore to Summerhill Twp. lines, vitr. brick on concrete. $150,000. L. R. Owen, and J. L. Plummer, Otto Bldg., Johnstown, engrs.

Va., Chatham—Dec. 4, by J. J. Whitehead, chn. Bd. Supervs. Pittsylvania Co., 6.7 mi. soil road beginning at Gretna and running west to Pittsville, 19 ft., 32,000 cu.yd. excav., 2,400 lb. reinforcing, etc. G. P. Coleman, Richmond, highway comr.

N. C., Newton—Nov. 28, by town, 1,200 cu.yd. excav., 5,625 sq.yd. concrete paving, 5,065 ft. combined curb and gutter, etc. $25,000. S. B. Howard, Newton, engr.

S. C., Aiken—Dec. 7, by Comrs. Aiken Co., constructing 14.7 mi. State Route 39, from Aiken-Orangeburg Co. line towards Monetta, 61,903 cu.yd. common excav., 36,195 cu.yd. sand-clay surfacing, 1,345 lin.ft. rein.-con. pipe, 104 cu.yd. concrete.

S. C., Camden—Dec. 6, by Bd. Comrs. Kershaw Co., constructing 3.3 mi. State Route 26, between survey station 0-00, end of county road work, and Kershaw-Sumter Co. line, 23,158 cu.yd. excav., 8,275 cu.yd. sand-clay surfacing, 362 lin.ft. rein.-con. pipe, etc.

S, C., Ridgeland—Dec. 5, by Jasper Co. Hy. Comn., constructing 9.79 mi. State Route 36, between here and Gillisonville, 47,393 cu.yd. common excav., 24,094 cu.yd. sand clay or gravel surfacing, 232 cu.yd. rein.-con., 383 lin.ft. rein.-con. pipe, 7,658 lb. reinforcing; 9.1 mi. State Route 36, between Gillisonville and Hampton Co. line, 61,122 cu.yd. common excav., 22,475 cu.yd. sand-clay surfacing, 566 lin.ft. rein.-con. pipe, 288 cu.yd. rein.-con., 19,921 lb. reinforcing; also creosoted timber bridge on above road, incl. twelve 14 ft. bents, 1,175 lin.ft. treated piles, 26,443 ft. treated lumber, 338 sq.yd. bituminous paving, etc.

Fla., Gainesville — Nov. 27, by Bd. Trustees, Special Rd. and Bridge Dist. 1, Alachua Co., surface treating Gainesville-Archer Rd. and Gainesville-Fairbanks-Waldo Rd. A. B. Gross, dist. engr.; adv. this issue.

Fla., Tavares—Nov. 27, by Comrs. Lake Co., grading and sand-clay surfacing 10.3 mi. road C-D, Lake Shore Dr., East Lake Special Rd. and Bridge Dist. $100,000. G. S. Heller, Tavares, engr.

Louisiana — Dec. 1, by State Hy Dept., Reymond Bldg., Baton Rouge, grading and gravel surfacing 16.7 mi. Project 114, Sect. B, Monroe-Ruston Highway, Ouachita Parish. J. M. Bourmy, state engr.

Ky., Earlington—Dec. 4, by C. B. Johnson, mayor, paving various streets, warrenite bitulithic or vitr. brick on rolled stone base; adv. this issue. Noted Oct. 26.

Michigan—Dec. 5, by State Hy. Dept., Lansing, grading and surfacing 12.871 mi. Federal Aid Project 80, Sect. F, Machinac Co., 12.5 acres clearing, 54,751 cu.yd. excav., 135,826 sq.yd. gravel or waterbound macadam. F. F. Rogers, state highway comr.

Michigan—Dec. 7, by State Hy. Dept., Lansing, grading and surfacing 7.255 mi. Federal Aid Project 64, Crawford and Otsego Counties, 31,821 cu.yd. excav., 76,612 sq.yd. gravel. F. F. Rogers, state highway comr. Noted Nov. 16.

Kan., Mound City—Dec. 16, by Comrs. Linn Co., grading, etc., 10.473 mi. La Cygne-Pleasanton-Prescott Rd., Project 109-C, 27 ft., $55,000; 7.28 mi. Lay Cygne-Pleasanton-Prescott Rd., Project 146-A, 30 ft., $75,000. Kansas Eng. Co., Topeka, engrs.

Kan., Topeka—Dec. 19, by Comrs. Lyons Co., concrete or brick slab on 10 mi. Santa Fe Trail, Federal Aid Project 30-C-D, 18 ft. W. S. Ruggles, Emporia, engr.

S. D., Canton—Dec. 5, by E. A. Jones, aud. Lincoln Co., gravel surfacing 17 mi. Project 8. $30,000.

Missouri—Nov. 27, by State Hy. Dept. at div. office Charleston, 10.25 mi. road from Charleston to New Madrid, 24 ft., Federal Aid Project 198 A, Mississippi Co.; 14.841 mi. road from Anniston westwardly, 30 ft., Federal Aid Project 198 B, Mississippi Co., 30,831 cu.yd. earth excav., 18,277 cu.yd. borrow, 78,335 sq.yd. 1 course plain cement concrete, 60,615 sq.yd. specification A gravel pavement, 315.2 cu.yd. concrete masonry, etc. B. H. Piepmeier, Jefferson City, state highway engr. Noted Oct. 19 and Nov. 16.

Missouri—Dec. 2, by State Hy. Dept., Jefferson City, grading 3.078 mi. road from Jefferson City to Eldon, 24 ft., State Project Route 15, Sect. 57, Miller Co., 4.991 mi. road from Cole Co. line to Eldon, 24 ft., State Project Route 15, Sect. 56, Miller Co., 2.322 mi. road on Capitol Highway, 24 ft., State Project Route 12, Sect. 29, Moniteau Co., 4.375 mi. road from Douglas Co. line to Howell Co. line, 26 ft., State Project Route 5, Sect. 96, Ozark Co., 5 mi. road from Douglas Co. line to Howell Co. line, 26 ft., State Project Route 5, Sect. 95, Ozark Co., 5 mi. road from Milan to Green City, 24 ft., State Project Route 6, Sect. 34, Sullivan Co.; grading and gravel surfacing 4.061 mi, road from Vienna to Osage Co. line, 16 ft. wide, 9 in. at center, 9 in. at edges, State Project Route 7, Sect. 55, Maries Co., 5 mi. road on Capitol Highway, 16 ft., State Project Route 12, Sect. 30, Moniteau Co., 4.914 mi. road from Monett to Eureka Springs, 16 ft. wide, 9 in. at center, 9 in. at edges, State Project Route 37, Sect. 7, Barry Co., 1.403 mi. road McBride Hill Relocation, 12 ft., 9 in. at center, 9 in. at edges, State Project Route 51, Sect. 3, Perry Co., 4.896 mi. road from Bolivar to Buffalo, 16 ft. wide, 9 in. at edges, 9 in. at center, State Project Route 15, Sect. 80, Dallas Co. B. H. Piepmeier, state highway engr.

Missouri—Dec. 2, by State Hy. Dept., Jefferson City, 3.24 mi. road from Monett to Eureka Springs, 16 ft., State Project Route 37, Sect. 10, Barry Co., 161,798 cu.yd. earth and 2,185 cu.yd. rock excav., 7,756 cu.yd. 1 course gravel surfacing ¼ mi. haul, 38,784 cu.yd. 1 course gravel surfacing additional ¼ mi. haul, 210.5 cu.yd. concrete masonry, etc.; 4.866 mi. road from Centerville to Ellington, 24 ft., State Project Route 21, Sect. 25, Reynolds Co., 50,056 cu.yd. earth and 610 cu.yd. rock excav., 5,498 cu.yd. borrow, 86.6 cu.yd. concrete masonry, etc., 2.585 mi. road on Kings Highway from Jackson to Perry Co. line, 26 ft., State Project Route 25, Sect. 19, Cape Girardeau Co., 17,856 cu.yd. earth and 3,144 cu.yd. rock excav., 4,413 cu.yd. borrow, 103.8 cu.yd. concrete masonry, etc.; 2.886 mi. road on Santa Fe Trail, State Project Route 20, Sect. 10, Lafayette Co., 10,092 cu.yd. earth and 176 cu.yd. rock excav., 17,349 cu.yd. borrow, 30,561 sq.yd. concrete pavement, 18 ft. wide, 7 in. at center and 7 in. at edges, 258 cu.yd. concrete masonry, etc.; 2.061 mi. road from Cairo to Poplar Bluff, State Project Route 16, Sect. 94, Mississippi Co., 5,564 cu.yd. earth excav., 15,703 cu.yd. borrow, 2,176 cu.yd. gravel, 2,176 cu.yd. gravel ¼ mi. haul, 3,970 cu.yd. gravel additional ¼ mi. haul, 10,882 sq.yd. 1 course concrete pavement, 64.1 cu.yd. concrete masonry, etc.; 1.942 mi. road north and south through Linn Co., 18 ft., State Project Route 5, Sect. 15, 9,882 cu.yd. earth excav., 590 cu.yd. borrow, 3,957 cu.yd. sledged stone base, 3,957 cu.yd. sledged stone base ¼ mi, haul, 68,364 cu.yd. sledged stone base additional ¼ mi. haul, 424 cu.yd. waterbound macadam, 424 cu. yd. waterbound macadam, ¼ mi. haul, 7,324 cu.yd. waterbound macadam additional ¼ mi. haul, 1,389 cu.yd. crushed stone, 1,389 cu.yd. crushed stone ¼ mi. haul, 27,468 cu.yd. crushed stone additional ¼ mi. haul, 33,210 gal. bituminous binder, 54.5 cu.yd. concrete masonry, etc.; 3.095 mi. road from Carter Co. line to Ellsinore, 24 ft., State Project Route 16, Sect. 73, Carter Co., 17,725 cu.yd. earth excav.; 3,160 cu.yd. borrow, 78.3 cu.yd. concrete masonry, etc.; 1.279 mi. road from Hartville to Mansfield, 12 ft., State Project Route 5, Sect. 86, Wright Co., 6,750 lin.ft. grading, 2,362 cu.yd. gravel surfacing ¼ mi. haul, 49,989 cu.yd. gravel surfacing additional ¼ mi. haul; 4.991 mi. road from Excelsior Springs to Carroll Co. line, 26 ft., State Project Route 10, Sect. 14, Ray Co., 11,033 cu.yd. earth excav., 7,802 cu.yd. borrow, 25.9 cu.yd. concrete masonry, etc.; 2.244 mi. road from St. Louis to Springfield, 18 ft., State Project Route 14, Sect. 77, St. Louis Co., 16,214 cu.yd. earth excav., 202 cu.yd. borrow, 23,699 sq.yd. concrete pavement, 282.7 cu.yd. concrete masonry, etc.; 4.489 mi. road from Elsinore to Poplar Bluff, 24 ft., State Project Route 16, Sect. 74, Carter Co., 18,604 cu.yd. earth excav., 1,224 cu.yd. borrow, 67.4 cu.yd. concrete masonry, etc.; 5 mi. road north and south through DeKalb Co., 24 ft., State Project Route 31, Sect. 1, 20,477 cu.yd. earth excav., 3,754 cu.yd. borrow, 208.9 cu.yd. concrete masonry, etc.; 2.01 mi. road from Wright Co. line to Ozark Co. line, 24 ft., State Project Route 5, Sect. 93, Douglas Co., 14,209 cu.yd. earth and 2,366 cu.yd. rock excav., 198 cu.yd. borrow, 45.6 cu. yd. concrete masonry, etc.; 3.31 mi. road from Wright Co. line to Ozark Co. line, 24 ft., State Project Route

Streets and Roads (Continued)

5, Sect. 94, Douglas Co., 18,577 cu.yd. earth and 1,117 cu.yd. rock excav., 90 cu.yd. borrow, 19.4 cu.yd. concrete masonry; 4.482 mi. road through St. Genevieve Co., 16 ft., State Project Route 25, Sect. 5, 5,397 cu.yd. earth and 2,307 cu.yd. rock excav., 1,761 cu.yd. borrow, 16,480 lin.ft. grading, 10,647 cu.yd. gravel surfacing ¼ mi. haul, 18,632 cu.yd. gravel surfacing additional ¼ mi. haul, 162.8 cu.yd. concrete masonry, etc.; 4.636 mi. road on Kings Highway, 16 ft., State Project Route 25, Sect. 12, Perry Co., 13,681 cu.yd. earth excav., 404 cu.yd. borrow, 13,341 cu.yd. 1 course gravel surfacing ¼ mi. haul, 96,216 cu.yd. gravel surfacing additional ¼ mi. haul, 13,341 cu.yd. screening gravel, 29.3 cu.yd. concrete masonry, etc. B. H. Piepmeier, state highway engr. Noted Oct. 26.

Missouri—Dec. 2, by State Hy. Dept., Jefferson City, 4.855 mi. road from Jefferson City to Eldon, 12 ft., State Project Route 15, Sect. 52, Cole Co., 27,507 cu.yd. earth and 7,503 cu.yd. solid rock excav., 12,651 cu.yd. borrow, 10,500 cu.yd. 1 course gravel surfacing ¼ mi. haul, 53,000 cu.yd. gravel surfacing additional ¼ mi. haul, 10,500 cu.yd. gravel screening, 62.8 cu.yd. concrete masonry, etc., 3.564 mi. road south of Memphis, 16 ft., State Project Route 15, Sect. 4, Scotland Co., 5,186 cu.yd. earth excav., 2,111 cu.yd. borrow, 120 sta. yd. grading, 8,476 cu.yd. grading at siding, 8,476 cu.yd. 1 course gravel surfacing ¼ mi. haul, 70,226 cu.yd. gravel surfacing additional ¼ mi. haul, 55.1 cu.yd. concrete masonry, etc., 4.985 mi. road from Ozark Co. line to West Plains, 24 ft., State Project Route 80, Sect. 8, Howell Co., 29,569 cu.yd. earth excav., 14,510 sta.yd. overhaul, 299.9 cu.yd. concrete masonry, etc., 4.94 mi. road from Ozark Co. line to West Plains, 24 ft., State Project Route 80, Sect. 7, Howell Co., 27, 839 cu.yd. earth excav., 15,495 sta.yd. overhaul, 192.1 cu.yd. concrete masonry, etc., 2.575 mi. road from Green Co. line to Seymour, 16 ft., State Project Route 16, Sect. 35, Webster Co., 5,295 cu.yd. earth excav., 6,106 cu.yd. borrow, 6,133 cu.yd. 1 course gravel ¼ mi. haul, 49,064 cu.yd. gravel additional ¼ mi. haul, 6,133 cu.yd. screening gravel, 68.1 cu.yd. concrete masonry, etc., 3.548 mi. road east and west through Beaufort, 16 ft., State Project Route 12, Sect. 52, Franklin Co., 8,487 cu.yd. gravel pavement ¼ mi. haul. 119,665 cu.yd. gravel pavement additional ¼ mi. haul, 8,487 cu. yd. screening gravel, 3.994 mi. road from Wayland southwardly, 24 ft., State Project Route 9, Sect. 7, Clark Co., 22,454 cu.yd. earth excav., 12,632 cu.yd. borrow, 254.3 cu.yd. concrete masonry, etc., 0.871 mi. road from Unionville northwardly, 16 ft., State Project Route 5, Sect. 2, Putnam Co., 8,053 cu.yd. earth excav., 2,508 cu.yd. gravel surfacing, 2,508 cu.yd. gravel surfacing ¼ mi. haul, 10,296 cu.yd. gravel additional ¼ mi. haul, 35.4 cu.yd. concrete masonry, etc., 2.746 mi. road from Unionville southwestwardly, State Project Route 5, Sect. 3, Putnam Co., 12,771 cu.yd. earth excav., 4,000 cu.yd. borrow, 7,905 cu.yd. gravel surfacing ¼ mi. haul, 39,517 cu.yd. gravel surfacing additional ¼ mi. haul, 44.5 cu.yd. concrete masonry, etc.; grading, etc. 2.4 mi. road from Tarkio southwardly toward Fairfax, 30 ft., State Project Route 61, Sect. 4, Atchison Co., 3.3 mi. road from Mexico eastwardly, 30 ft., State Project Route 22, Sect. 9, Audrain Co., 5 mi. road from Fairfax northwardly toward Tarkio, 30 ft., State Project Route 1, Sect. 7, Atchison Co., 4 mi. road from Jackson Co. line to Warrensburg, 30 ft. crown, State Project Route 12, Sect. 5, Johnson Co., 5 mi. road from Jackson Co. line to Odessa, 30 ft. crown, State Project Route 2, Sect. 7, Lafayette Co., 1.6 mi. road from Grayson to Clay Co. line, 30 ft., State Project Route 33, Sect. 9, Clinton Co., 4 mi. road from Grayson to Clay Co. line, 30 ft., State Project Route 33, Sect. 10, Clinton Co.; grading and 16 ft. gravel paving 4.1 mi. road from Festus to St. Genevieve Co. line, 30 ft., State Project Route 25, Sect. 2, Jefferson Co., 5 mi. road from Neosho southwardly, 30 ft., State Project Route 1, Sect. 106, Newton Co., 5 mi. road from Jefferson City, to Lebanon, 30 ft. crown, State Project 5, Route 73, Laclede Co., 3 mi. road from Malden to Risco, 30 ft. crown, State Project 82, Sect. 3, New Madrid Co.; grading and 18 ft. concrete paving 5.322 mi. road from Poplar Bluff to Fisk, 30 ft., Federal Aid Project 204A, Butler Co., 4.8 mi. road from Poplar Bluff to Fisk, 30 ft., Federal Aid Project 204A, Butler Co., 2.5 mi. road from Kansas City to St. Louis, 30 ft. crown, State Project Route 2, Sect. 69, St. Charles Co., 3 mi. road from Kansas City to St. Louis, 30 ft. crown, State Project Route 2, Sect. 71, St. Charles Co., 4.5 mi. road from Opolis to Asbury, 30 ft. crown, State Project Route 57, Sect. 2, Jasper Co., 5 mi. road from Tipton Ford to Neosho, 30 ft. crown, State Project Route 1, Sect. 104, Newton Co., 2 mi. road from Tipton Ford to Neosho, 30 ft., State Project Route 1, Sect. 105, Newton Co.; grading, 9 ft. concrete paving and 7 ft. gravel paving 2.5 mi. road from East Prairie to New Madrid Co., 30 ft. crown, State Project 55, Sect. 2, Mississippi Co.; grading and 18 ft. concrete or asphaltic concrete paving on sledged stone, 5 mi. road from Clinton Co. line to Hamilton, 30 ft., State Project Route 8, Sect. 12, Caldwell Co., 5 mi. road from Clinton Co. line to Hamilton, 30 ft., State Project Route 8, Sect. 13, Caldwell Co.; grading and paving 2.5 mi. road from Lawrence Co. line to Billing, 30 ft., State Project Route 16, Sect. 20, Christian Co., 16 ft. bituminous macadam or rock asphalt, 12 in. curb, 1.35 mi. road from Pettis Co. line at Windsor southwestwardly, 30 ft., Federal Aid Project Route 133A, Sect. 6, Henry Co., and 5 mi. road from Pettis Co. line at Windsor southwestwardly, 30 ft., Federal Aid Project Route 133A, Sect. 5, Henry Co., both 18 ft. bituminous macadam or 6 in. concrete; grading and approach fills to 4 bridges, on road from Chillicothe to Trenton, 30 ft. crown, State Project 3, Sect. 16, Livingston Co., to bridge over Wildcat Creek near Princeton, etc., on road from Princeton southwardly, 30 ft., State Project Route 13, Sect. 6, Mercer Co., at end of Boonville Bridge over Missouri River on 0.08 mi. road from St. Louis to Kansas City, 30 ft., State Project Route 2, Sect. 33, Howard Co., to bridge over Dry Fork of Merramec River near Salem on 0.25 mi. road from Salem to Licking, 30 ft. crown, State Project Route 32, Sect. 4, Dent Co., to bridge over Gasconade River near Lebanon on 0.56 mi. road from St. Louis to Springfield, 30 ft. crown, State Project Route 14, Sect. 38, Laclede Co., to bridge over Big North Fork of White River on road from Gainesville to Arkansas state line, Federal Aid Project 111 B, Ozark Co., to 4 bridges on road from Faucette to New Market, 30 ft. crown, State Project Route 1, Sect. 34, Buchanan Co., to bridge over Big Piney River near Waynesville, on road from St. Louis to Springfield, 30 ft. crown, State Project Route 14, Sect. 45, Pulaski Co. B. H. Piepmeier, state highway engr. Noted Nov. 16.

BRIDGES—MONTANA

Following are lowest three bids opened Oct. 27 by J. N. Ely, ch. engr., State Highway Dept., Helena, for constructing bridges on Belt-Riceville Rd., Cascade Co., (A) McGuire & Blakeslee, Great Falls (awarded contract); (B) Security Bridge Co., Billings; (C) Illinois Steel Bridge Co., 551 Gilfillan Bldg., St. Paul, Minn. The Unit bids were as follows:

	A	B	C
137,000 lb. structural steel	$0.07	$0.068	$0.08
10,400 lb. reinforcing steel	.06	.06	.062
77 cu.yd. class "A" concrete	16.00	20.00	23.00
600 cu.yd. class "B" concrete	13.90	15.00	17.25
660 cu.yd. excavation	4.75	5.50	5.00
37 M.F.B.M. lumber	55.00	65.00	65.00
Extended totals	$27,452	$29,167	$32,374

ROAD WORK—MONTANA

Following are lowest three bids opened Oct. 27 by J. N. Ely, ch. engr., State Highway Dept., Helena, for constructing 10.64 mi. Belt-Riceville Rd., Cascade Co., (A) White, Brown & Leahy, Ford Bldg., Great Falls (awarded contract); (B) B. Helean, 606 West Pine St., Missoula; (C) B. P. Melchert, Lewistown. The unit bids were as follows:

	A	B	C
104,692 cu.yd. unclassified excavation	$0.35	$0.38	$0.38
2,117 cu.yd. excavation from railway embankments	.75	.38	.60
19,555 cu.yd. rock excavation	1.00	.80	1.10
75,692 sta. yd. overhaul	.01	.01	.01
8,425 cu.yd. crushed gravel surfacing	2.00	2.20	2.00
280 lin.ft. 15 in. corrugated metal pipe culvert	1.40	1.61	1.70
104.16 cu.yd. class "B" concrete in headwalls	25.00	20.00	21.00
67.65 cu.yd. class "A" concrete in box culvert	25.00	25.00	23.00
3,600 lb. reinforcing steel in culverts	.10	.08	.10
11,918 lin.ft. timber guard rail	.50	.70	.65
964 cu.yd. rock retaining wall	3.00	3.00	4.00
91 cu.yd. random rip rap	1.50	1.00	2.00
30.7 acres clearing	50.00	25.00	60.00
13.5 acres grubbing	50.00	50.00	125.00
16.481 M.F.B.M. lumber in cattle passes	60.00	65.00	85.00
21,115 lin.ft. removal of fences	.03	.04	.03½
325 cu.yd. stock piled gravel	1.75	1.50	2.00
10.64 mile finishing	150.00	150.00	100.00
Sub-total	$95,424	$96,804	$103,918
Alternates			
1,404 lin.ft. 18 in. corrugated metal pipe culvert	$1.75	$1.73	$1.90
382 lin.ft. 24 in. corrugated metal pipe culvert	2.40	2.40	2.80
68 lin.ft. 30 in. corrugated metal pipe culvert	3.00	2.90	3.55
188 lin.ft. 36 in. corrugated metal pipe culvert	4.00	3.92	4.80
Sub-total	$4,330	$4,280	$4,881
1,404 lin.ft. 18 in. concrete pipe culvert	$2.00	$2.63	$2.35
382 lin.ft. 24 in. concrete pipe culvert	3.00	3.72	3.60
68 lin.ft. 30 in. concrete pipe culvert	4.00	4.96	5.00
188 lin.ft. 36 in. concrete pipe culvert	5.00	5.71	5.70
Sub-total	$5,166	$6,524	$6,086
Extended totals using corrugated metal pipe	$99,753	$101,084	$108,799
Extended totals using concrete pipe	*$100,590	$103,328	$110,004
10% for engineering and contingencies	$9,975	$10,108	$10,880
Extended grand totals	$109,729	$111,192	$119,679

*Awarded contract.

Mo., St. Louis—Dec. 12, at office of Bd. Pub. Serv., City Hall, grading 860 ft. Esther Ave. from Elizabeth to Wilson Aves., 5,600 cu.yd. earth excav., $7,250; 3,000 ft. Goodfellow Ave. from Maffitt to Natural Bridge Aves., 28,100 cu.yd. earth excav., $17,400; 700 ft. Tennessee Ave. from Iron to Fillmore ts., 5,035 cu.yd. excav., $5,200. W. W. Horner, City Hall, engr.

Tex., Highland Park (Dallas P. O.)—Nov. 30, by City Comn., paving Euclid St. from Drexel to Highland Sts. and Highland St. from Euclid to Beverly Sts., bitulithic or Uvalde rock asphalt. Cost to exceed $25,000. Myers & Noyes, Dallas County Bank, Dallas, engrs.

Tex., Jefferson—Dec. 5, by E. B. Lewis, judge Marion Co., grading, claying, gravel surfacing and bridging 3.56 mi. road from here to Marion Co. line, 16 ft., 74 cu.yd. concrete, 6,784 lb. reinforcing, 2,371 cu.yd. claying sub-grade, 8,245 cu.yd. shipped gravel, 40,988 ft. creosoted lumber, 25,335 ft. oak lumber, etc., $66,945; 8.8 mi. State Highway 8 from here to Cass Co. line, 47,889 cu.yd. roadway and 44,325 cu.yd. borrow excav., 379.6 cu.yd. concrete, 10,533 cu.yd. claying sub-grade, 9,554 cu.yd. shipped gravel, 10,838 cu.yd. local gravel, 46,135 ft. cresoted lumber, 29,835 ft. oak lumber, etc., $100,980. T. B. Worden, co. engr.

Tex., Kaufman—Nov. 28, by W. P. Williams, judge Kaufman Co., grading, etc., 9.37 mi. State Highway 15 from Terrell west to Talty-Forney Rd., 24 ft., 27,555 cu. yd. roadway and 71,469 cu.yd. borrow excav., 92,246 lb. reinforcing, $60,000; 10.31 mi. State Highway 15 from Van Zandt Co. line west, and from Terrell east, 24 ft., 20,497 cu.yd. roadway and 19,251 cu.yd. borrow excav., 413 cu.yd. concrete, 42,920 lb. reinforcing, etc., $30,000. L. M. Ferlet, Terrell, co. engr.

Tex., Pecos—Dec. 8, by J. F. Ross, judge Reeves Co., grading and gravel surfacing 4.53 mi. State Highway 27, 16 ft. 465 cu.yd.

Streets and Roads (Continued)

concrete, 10,183 cu.yd. roadway, 9,876 cu.yd. borrow and 9,816 cu.yd. loose rock excav., 6,445 cu.yd. gravel surfacing, 43,398 lb. reinforcing, $30,292; 3.75 mi. State Highway 17-A, 16 ft., 13,336 cu.yd. roadway and 7,058 cu.yd. borrow excav., 338 cu.yd. concrete, 36,673 lb. reinforcing, 7,942 cu.yd. gravel, $25,000. A. J. Adcock, Balmorhea, co. engr.

Oklahoma—Nov. 29, by M. M. Henderson, comr. highways, Oklahoma City, grading and concrete paving 3.49 mi. Federal Aid Project 86, Tulsa Co., 12,500 sq.yd. concrete, 4,110 cu.yd. earth and 4,756 cu.yd. rock excav., 205 cu.yd. concrete, 19,222 lb. reinforcing; 11.9 mi. Federal Aid Project 59, Bryan Co., 555 cu.yd. concrete, 31,000 cu.yd. gravel, 60,000 cu.yd. earth excav., 31,000 cu.yd. gravel, 43,000 lb. reinforcing. M. L. Cunningham state highway engr.

Ore., Portland—Receiving bids grading, curbing and paving East 50th St. $788, 43rd St. S. E. $2,326, Fessenden St. $7,177, Mississippi Ave. $8,409, East Stark St. $21,496, East 7th St. $3,724, Forest St. $2,787, concrete or bitulithic concrete. O. Laurgard, city engr.

California—Dec. 11, by State Hy. Dept., Sacramento, grading 9.8 mi. highway between 2 mi. south of Hornbrook and Oregon State line, Siskiyou Co., 8.9 mi. highway between Parkfield Junction and Coolinga, Fresno Co.; grading and gravel surfacing 11.9 mi. highway between Willows and point 3 mi. south of Glenn, Glenn Co., 4.5 mi. highway between 5 mi. east of Gilroy and San Felipe, Santa Clara Co.; asphalt concrete surfacing 0.5 mi. highway between Roseville and Lincoln, Placer Co.; grading and paving with either portland cement concrete, asphaltic concrete or asphaltic macadam, 8.5 mi. highway between Granada and Yreka, Siskiyou Co.; constructing bridge over Northwestern Pacific R.R. near Lytton, Sonoma Co., including three 32 ft. rein.-con. girder spans, with necessary bents, abutments and wing walls. A. B. Fletcher, state highway engr.

Calif., San Diego—Dec. 4, by Common Council, improving Adams and Works Aves., Utah and 30th Sts., 4,904 lin.ft. cement concrete curbing, 23,428 sq.ft. cement concrete sidewalk, 239,438 sq.ft. 1½ in. asphaltic concrete on 4 in. cement concrete, 113,090 sq.ft. 1½ in. asphaltic concrete on 2½ in. asphaltic concrete, etc. F. A. Rhodes, City Hall, engr. Noted Aug. 10.

Calif., Stockton—Dec. 5, by Supervs. San Joaquin Co., improving Brian-Woods Ferry Rd., 4,500 cu.yd. grading, 5,770 ton crushed rock, 770 ton pea gravel, 630 bbl. asphaltic oil, 40 cu.yd. concrete. F. E. Quail, co. surv.

Quebec—Dec. 16, by J. L. Boulanger, deputy minister of roads, Quebec, building 103,032 ft. Laprairie-Lacolle Highway, in St. Jean, St. Blaise, St. Paul and Notre Dame du Carmel Parishes, oil macadam. M. Nectkar, ch. engr.

Quebec—Dec. 30, by J. L. Boulanger, deputy minister of highways, Quebec, graveling 11.97 mi. Rawdon-L'Assomption Highway in towns of Rawdon, St. Jacques, St. Alexis, Montcalm, St. Esprit, St. Roch, and L'Epiphanie, also 6.5 mi. Drummondville-Annaville Highway, in St. Leonard, St. Celestin and Annaville Parishes, tar macadam on 6 mi. Levis-St. Lambert Highway, through vilage of St. Angele de Laval. M. Necktar, ch. engr.

BIDS RECEIVED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, opened bids Nov. 15, resurfacing (1) Albany Ave., repaving with permanent asphalt (2) Church Ave. (3) Empire Blvd. (4) Ave. R, from Cranford Co., 52 9th St., (1) $22,295 (2) $21,270 (3) $15,090 (4) $3,657; Boro Asphalt Co., 1301 Metropolitan Ave., (1) $25,946 (2) $20,898 (3) $12,666 (4) $4,071; Cleveland Trinidad Paving Co., Flushing, (2) $20,574 (3) $12,090 (4) $4,003; Sicilian Asphalt Paving Co., 41 Park Row, New York, (2) $21,445 (3) $14,052. Noted Nov. 9.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., opened bids Nov. 17, grading, curbing and laying sidewalks on 101st (Jerome) Ave. from Van Wyck to Liberty Aves., etc., from E. Bloch, Woodhaven, $12,990, Kennedy & Smith, 93 Amity St., Flushing, $13,846, Galecor Contg. Co., $13,866; paving 101st (Jerome) Ave. from Van Wyck to Liberty Aves., permanent sheet asphalt on concrete, from Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, $17,805, Cranford Co., 52 9th St., Brooklyn, $17,979, W. P. McDonald Co., 17 West 42nd St., New York, $21,665. Noted Nov. 9.

Pa., Ebensburg—Supervs. Cambria Co. opened bids Nov. 13, paving 5,800 ft. Jackson Twp. Rd., vitr. brick blocks on combination concrete, from Owen & Plummer, Inc., Otto Bldg., Johnstown, $76,555, G. T. Morgan, Woolf Blk., Johnstown, $79,443; also 3 mi. Prospect Hill Rd., East Taylor Twp., vitr. brick on concrete, from E. A. James, Trust Bldg., Johnstown, $183,657, S. Gamble Co., Johnstown, $184,877, McClure & Binger, Johnstown, $184,877.

Pa., Ebensburg—Supervs. Susquehanna Twp. opened bids Nov. 15, for 3.25 mi. Susquehanna Twp. Rd. from Emeigh Run to Plattsville, brick on concrete, from Burd Constr. Co., Cresson, $228,632; P. Azzara Co., Cresson, $228,668; Owen & Plummer, Inc., Otto Bldg., Johnstown, $233,778. Noted Nov. 9.

Florida—State Hy. Dept., Tallahassee, clearing and surfacing (1) 10 mi. road from Pensacola to Roberts, Federal Aid Project 34, Escambia Co. (2) 11.6 mi. road from Lake City to Wellborn, State Project 504, Columbia and Suwannee Counties (3) 7.76 mi. road from Vero to Wabasso, Federal Aid Project 36, St. Lucie Co., (a) bituminous macadam (b) sheet asphalt (c) plain cement concrete (d) bituminous concrete, from J. F. Morgan Paving Co., Jacksonville (street address not available), (1a) $375,734 (1b) $370,454 (2a) $265,611 (2b) $279,494 (2d) $249,006 (3a) $301,880 (3b) $310,490; C. H. Turner, Pensacola, (1c) $250,808; S. S. Fulghum, Pensacola, (1c) $270,265; W. D. Winchell & Co., 337 Siebert St., Columbus, O., (1c) $287,136; McDougald Constr. Co., Atlanta, Ga., (street address not available), (2a) $249,891; Barber-Fortin Co., Gainesville, (2a) $260,643 (2b) $272,552 (2d) $239,887 (3b) $276,198; Maule Paving Co., Ojus, (3a) $240,221. Noted Nov. 2 and 9.

Tex., Pearsall—Frio Co. grading, gravel surfacing and topping with 1½ in. bituminous macadam (1) 17.2 mi. Meridian Highway from here north to Meridian Co. line, 18 ft., engrs. est. $283,279, (2) 17.81 mi. Meridian Highway between here and La Salle Co. line, 18 ft., engrs. est. $316,415 incl. engineering and contingencies, from Smith Bros., Crockett, (1) $207,310 (2) $239,941; Uvalde Rock Asphalt Co., Swearingen Bldg., San Antonio, (1) $208,032, (2) $232,147; Womach Constr. Co., Sherman, (1) $212,293, (2) $245,586. Noted Nov. 2.

Colorado—State Hy. Dept., Denver, concrete paving 4.185 mi. Denver-Colorado Springs Rd., Federal Aid Project 116-A, El Paso Co., 18 ft., from Standard Eng. & Constr. Co., 518 E. & C Bldg., Denver, $177,823; J. F. Roberts Constr. Co., Tramway Bldg., Denver, $183,703; Colorado Bridge & Constr. Co., 601 Gas & Electric Bldg., Denver, $190,072. Engrs. est. $231,394. Noted Nov. 2.

Wash., Seattle—Opened bids Nov. 10, paving Taylor Ave. et al, engrs. est. $33,806, (2) Alki Ave., engrs. est. $119,831, (a) concrete, (b) concrete and sandstone, from J. L. Smith, Pioneer Bldg., (1a) $32,769 (1b) $35,659 (2) $112, 948; G. T. Warren, 402 30th Ave. S., (1a)$32,858 (1b) $34,099; Coluccio & Erickson, 1642 Lane St., (1a) $32,985; Fiorito Bros., 3950 6th Ave., N. W., (2) $112,309; R. G. Stevenson, 1327 Northlake Ave., (2) $113,598. Noted Sept. 28.

Calif., Bakersfield—Improving California Ave., (1) 4,933 cu.yd. excav. (2) 2,258 cu.yd. fill (3) 121,628 ft. subgrade (4) 121,628 sq.ft. 1½ in. warrenite bitulithic on 4 in. asphaltic concrete (5) 9,250 ft. headers (6) 2,344 ft. concrete curb (7) 8,826 ft. concrete gutter, from Federal Constr. Co., Call Bldg., San Francisco, (1) $0.90 (2) $1.60 (3) $0.04 (4) $0.234 (5) $0.14 (6) $0.60 (7) $0.30; California Road and Street Impvt. Co., Bank of Italy Bldg., Fresno, (1) $1.60 (2) $1 (3) $0.05 (4) $0.24 (5) $0.20 (6) $0.65 (7) $0.29; Thompson Bros., G and Divisadero Sts., Fresno, (1) $1.60 (2) $1.50 (3) $0.045 (4) $0.235 (5) $0.15 (6) $0.65 (7) $0.28. Noted Sept. 28.

Calif., Los Angeles—Improving 16th St. between Crenshaw Blvd. and Arlington Ave., 174,358 sq.ft. grading, 174,358 sq.ft. asphalt pavement, 23,590 sq.ft. concrete pavement, 5,796 lin.ft. concrete curb, 27,261 sq.ft. cement walks, 7,201 sq.ft. concrete gutter, etc., from G. R. Curtis, 2440 East 26th St., $114,417; Fairchild-Gilmore-Wilton Co., 1060 South Bway., $116,594.

Calif., Santa Rosa—Supervs. Sonoma Co., grading and surfacing 13.35 mi. Guerneville-Jenner Highway, from W. L. Proctor, Santa Rosa, $118,500; grading and asphalt surfacing 3.05 mi. Petaluma-Sonoma Highway, Sect. B, and 1.79 mi. road from Sonoma to State Highway Rd., Sect. B from M. P. Tracy, Sonoma, $30,147 and $15,967 respectively; 1.04 mi. Dry Creek Rd. and Geyserville-Jimtown Rd. Sect. A, from Mercer-Fraser Co., 1st and G Sts., Eureka, $10,623 and $5,572 respectively. Noted Oct. 26.

Calif., Stockton—Supervs. San Joaquin Co., paving with oil macadam (1) 2½ mi. Locust Ave., Rd. Dist. Impvt. 4 (2) Netter Rd., Impvt. Dist. 6, from Irey & Holden, Lodi, (1) $26,087 (2) $10,086; C. Moreing & Sons, Commercial and Savings Bank Bldg., (1) $26,380 (2) $10,824; Blumenkranz & Vernon, Stockton, (1) $31,700 (2) $12,816. Noted Oct. 26.

CONTRACTS AWARDED

Massachusetts—State Bd. of Pub. Wks., State House, Boston, paving 8 mi. highway, 16 ft., between Otis and Sandisfield, 225,280 sq.yd. bituminous macadam, to Lane Constr. Co., 37 Colony St., Meriden, Conn., $307,415. Engrs. est. $350,000. Noted Oct. 26.

Mass., Ashburnham — Town and State, paving 4,221 ft. road, 20 ft., bituminous macadam, here, to Lane Constr. Co., 37 Colony St., Meriden, Conn., $31,502. Noted Nov. 9.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., repaving 27th and 30th Sts., sheet asphalt, to M. Del Balso, 660 East 221st St., $31,740 and $21,021, respectively, Mulberry and Mott Sts., granite block, to P. Cramer, 114 East 52nd St., $2,966 and $9,381, respectively; grading Chittenden Ave. and grading, curbing and flagging Pinehurst Ave., to Sicilian Asphalt Paving Co., 41 Park Row, $17,416 and $20,915 respectively. Noted Nov. 16.

N. Y., Syracuse—Bd. Contr. & Supply, paving Coleridge and Shuart Aves., to F. J. Baker, University Blk., $42,493 and $30,514 respectively; Highland Ave. and Jasper St., to G. B. Dickinson, Union Bldg., $26,912 and $22,429 respectively; Merriman Ave., East Castle and Kellogg Sts., to J. H. Gallup, Union Bldg., $18,620, $19,141 and $29,743, respectively; Teall and South Crouse Aves., to C. T. Hookaway, Bastable Bldg., $24,105 and $22,730, respectively. Noted Oct. 26.

N. J., Hopatcong—Bd. Freeholders Sussex Co., Newton, grading Lakeside Blvd., here, to Smith Bros. & Co., Hackettstown, $17,032. Noted Oct. 19.

Pennsylvania—State Hy. Dept., Harrisburg, 20,088 ft. Route 333, York Co. and 22,806 ft. Routes 250 and 233, York Co., to Kumer & Graber, Shamokin, $215,365 and $261,549 respectively; 1,921 ft. Application 1958, Jefferson Co., to W. C. Quick, Brookville, $43,511; 24,077 ft. Route 226, Application 1523, Lehigh Co., to Juniata Co., 410 Empire Bldg., Phila., $169,633. Noted Oct. 26.

West Virginia—State Hy. Dept., Charleston, grading 11 mi. Grantsville-Arnoldsburg Rd., Project 3076 B, Calhoun Co., 58,650 lin.ft. clearing, 170,000 cu.yd. unclassified and 3,860 cu.yd. dry excav., 5,795 sta. yd. overhaul, 875 cu.yd. concrete, 10,500 lb. reinforcing, 1,125 cu.yd. coment rubble masonry, 4,242 lin.ft. 15 to 18 in. rein.con. pipe, etc., to Hardman & McKown, Spencer, $169,876; 5.7 mi. Summersville-Gilboa Rd., Project 3047, Nicholas Co., 30,100 lin.ft. clearing, 53,000 cu.yd. unclassified, 250 cu.yd. wet, 600 cu.yd. dry and 500 cu.yd. borrow excav., 214 cu.yd. concrete, 19,800 lb. reinforcing, 1,200 cu.yd. cement rubble masonry, 1,350 lin.ft. 18 in. vitr. clay pipe (double strength), to Lookout Constr. Co., Victor, $61,066; 12 mi. Elizabeth-Spencer Rd., Project 3067, Wirt Co., 58,425 lin.ft. clearing, 240,000 cu.yd. unclassified, 300 cu.yd. wet and 3,200 cu.yd. dry excav., 7,156 sta. yd. overhaul, 1,625 cu.yd. concrete, 10,000 lb. reinforcing, 925 cu.yd. cement rubble masonry, 4,732 lin.ft. 15 to 24 in. rein.-con. pipe, 1,372 lin.ft. 15 in. corrugated metal pipe, 16,675 lin.ft. timber piling, etc., to Ebersbach Constr. Co., Pomeroy, O., $230,789; 6 mi. Buckhannon-Randolph Rd., Project 3154, Upshur Co., 31,680 lin.ft. clearing, 70,000 cu.yd. unclassified, 1,014 cu.yd. dry and 1,140 cu.yd. borrow excav., 3,000 sta.yd. overhaul, 500 cu.yd. concrete, 10,573 lb. reinforcing, 1,710 lin.ft. 12 to 36 in. rein.-con. pipe, to W. H. Rhodes, Elkins, 63,812, 10 mi. Glenville-Normantown Rd., Project 3111, Gilmer Co., 53,446 lin.ft. clearing, 195,000 cu.yd. unclassified, 218 cu.yd. wet, 2,620 cu.yd. dry, and 13,450 cu.yd. borrow excav., 3,510 sta. yd. overhaul, 894 cu.yd. concrete, 37,160 lb. reinforcing, 995 cu.yd. cement and 3,975 cu.yd. dry rubble masonry, to Keeley Constr. Co., Clarksburg, $225,569; 4.6 mi. Maysel-King Shoals Rd., Project 3170, Clay Co., 25,000 lin.ft. clearing, 74,750 cu.yd. unclassified, 325 cu.yd. wet, 625 cu.yd. dry and 10,150 cu.yd. borrow excav., 207 cu.yd. concrete, 26,200 lb. reinforcing, 1,095 cu.yd. cement rubble masonry, 1,450 lin.ft. 18 in. vitr. clay pipe (double strength), to W. C. Markle, Clay, $64,781; 4 mi. road from end of Project 1067 to Raleigh Co. line, Project 3054, Summers Co., 23,960 lin.ft. clearing, 51,200 cu.yd. unclassified, 130 cu.yd. wet, 160 cu.yd. dry and 4,700 cu.yd. borrow excav., 374 cu.yd. concrete, 6,060 lb. reinforcing, 1,650 lin.ft. 18 in. vitr. clay pipe (double strength), to P. M. Price, Hinton, $52,080; 4.23 mi. Buckeye-Millpoint Rd., Project 3051, Pocahontas Co., 22,350 lin.ft. clearing, 30,000 cu.yd. unclassified, 110 cu.yd. wet, 430 cu.yd. dry and 200 cu.yd. borrow excav., 68 cu.yd. concrete, 5,000 lb. reinforcing, 1,075 cu.yd. cement rubble masonry, 1,550 lin.ft. 18 in. vitr. clay pipe (double strength), to F. Echols, Marlinton,

Streets and Roads (Continued)

$38,983; 11 mi. Pt. Mountain-Randolph Co. line Rd., Project 3021 B, Webster Co., 58,566 lin.ft. clearing, 112,000 cu.yd. unclassified, 350 cu.yd. dry and 2,500 cu.yd. borrow excav., 1,000 sta.yd. overhaul, 33 cu.yd. concrete, 2,160 lb. reinforcing, 840 cu.yd. cement rubble masonry, 3,280 cu.yd. dry rubble masonry, to Mace Constr. Co., Webster Springs, $90,645; 4.17 mi. Iroquois-Amigo Rd., Projects 3062 and 3133, Wyoming and Raleigh Counties, 22,040 lin.ft. clearing, 73,700 cu.yd. unclassified, 770 cu.yd. dry and 15,000 cu.yd. borrow excav., 38,000 sta.yd. overhaul, 570 cu.yd. concrete, 7,050 lb. reinforcing, 550 cu.yd. cement rubble masonry, 2,626 lin.ft. 18 to 24 in. vitr. clay pipe (single strength), etc., to G. F. Franklin & Co., Pocahontas, Va., $83,784; 4 mi. Ramage-Madison Rd., Project 3151, Boone Co., 20,650 lin.ft. clearing, 58,700 cu.yd. unclassified, 170 cu.yd. wet, 600 cu.yd. dry and 1,000 cu.yd. borrow excav., 105 cu.yd. concrete, 9,230 lb. reinforcing, 930 cu.yd. cement rubble masonry, 1,050 lin.ft. 18 in. vitr. clay pipe (double strength), to Sterling Constr. Co., Akron, O. (street address not available) $50,125; 1.7 mi. Racine-Peytona Rd., Project 3152, Boone Co., 8,800 lin. ft. clearing, 30,000 cu.yd. unclassified, 110 cu.yd. wet, 265 cu.yd. dry and 200 cu.yd. borrow excav., 75 cu.yd. concrete, 7,150 lb. reinforcing, 550 cu.yd. cement rubble masonry, etc., to Nash, Cain & Turmin, Day and Night Bank Bldg., Huntington $30,808; 9 mi. Echo-Fleming Rd., Project 3061, Wayne Co., 46,800 lin.ft. clearing, 140,000 cu.yd. unclassified, 100 cu.yd. wet and 2,400 cu.yd. dry excav., 14,700 sta. yd. overhaul, 3,380 cu.yd. concrete, 45,000 lb. reinforcing, 3,700 lin.ft. 18 in. vitr. clay pipe (single strength), etc., to Hatfield Constr. Co., 418½ 10th St., Huntington, $151,800; grading 8.6 mi. Junction-Hardy Co. line Rd., Project 3012, Hampshire Co., to L. J. Chandler, Virgilina, Va., $100,308; grading and gravel surfacing 9 mi. Pt. Pleasant-Clifton Rd., Project 3057, Mason Co., 46,500 lin.ft. clearing, 48,000 cu.yd. unclassified, 200 cu.yd. wet, 800 cu.yd. dry and 1,000 cu.yd. borrow excav., 555 cu. yd. concrete, 10,000 lb, reinforcing, 1,000 cu.yd. cement rubble masonry, 1,750 lin.ft. 18 to 24 in. rein.-con. pipe, 700 sq.yd. cement concrete gutter, 500 cu.yd. loose stone, 500 cu.yd. stone subbase course, 21,000 cu.yd. gravel surfacing, etc., to J. E. Doyle, 432 8th Ave., Huntington, $93,840; 7.53 mi. Ridgeley-Alaska Rd., Project 3107, Mineral Co., 39,710 lin.ft. clearing, 50,130 cu.yd. unclassified, 810 cu.yd. dry and 5,540 cu.yd. borrow excav., 3,000 sta.yd. overhaul, 540 cu.yd. concrete, 7,510 lb. reinforcing, 1,490 lin.ft. 15 to 24 in. rein.-con. pipe. 8,000 cu.yd. gravel surfacing, to L. J. Chandler Co., Virgilina, Va., $65,147; 5.5 mi. Henderson-Couch Rd., Project 3138, Mason Co., 28,500 lin.ft. clearing, 50,000 cu. yd. unclassified, 750 cu.yd. dry and 12,500 cu.yd. borrow excav., 35,000 sta.yd. overhaul, 850 cu.yd. concrete, 6,900 lb. reinforcing, 1,240 lin.ft. 18 to 24 in. rein.-con. pipe, 250 cu.yd. stone subbase course, 500 cu.yd. loose stone, 12,700 cu.yd. gravel surfacing, etc., to Coleman Bros., Ashton, $86,224; grading and paving with waterbound macadam 2.4 mi. Petersburg-Hardy Co. line Rd., Project 3149, Grant Co., 12,625 lin. ft. clearing, 16,325 cu.yd. unclassified and 360 cu.yd. dry excav., 350 sta.yd. overhaul, 155 cu.yd. concrete, 2,020 lb. reinforcing, 310 cu.yd. dry rubble masonry, 530 lin.ft. 15 to 24 in. rein.-con. pipe, 120 cu.yd. loose stone, 1,775 cu.yd. stone subbase course, 3,150 cu.yd. broken stone base course, 22,450 sq.yd. waterbound macadam surface, to L. J. Chandler, Virgilina, Va., $57,213; 4.24 mi. Martinsburg-Hedgesville Rd., Project 3028, Berkeley Co., 22,400 lin.ft. clearing, 29,200 cu.yd. unclassified, 400 cu.yd. dry and 600 cu.yd. borrow excav., 2,350 sta.yd. overhaul, 210 cu.yd. concrete, 1,640 lb. reinforcing, 1,234 lin.ft. 15 to 18 in. rein.-con. pipe, 120 cu.yd. loose stone, 4,450 cu.yd. stone subbase course, 5,550 cu.yd. broken stone base course, 40,000 sq.yd. waterbound macadam surface, to Bester-Long Co., Hagerstown, Md., $89,974; grading and paving with bituminous macadam, oiled, 4.2 mi. Shady-Springs-Flat Top Rd., Project 123, Raleigh Co., 22,200 lin.ft. clearing, 60,800 cu.yd. unclassified, 205 cu.yd. wet, 650 cu.yd. dry and 500 cu.yd. borrow excav., 650 cu.yd. concrete, 8,350 lb. reinforcing, 1,000 lin.ft. 18 in. vitr. clay pipe(single strength), 10,125 cu.yd. broken stone base course, 45,525 sq.yd. bituminous macadam surface, 102,500 gal. bituminous material for penetration macadam, etc., to J. E. Dougher & Sons, Union, $156,947; grading and paving with bituminous macadam 0.6 mi. Simmons-Freeman Rd., Project 3060 A, Mercer Co., 3,000 lin.ft. clearing, 1,800 cu.yd. unclassified, 110 cu.yd. dry and 500 cu.yd. borrow excav., 70 cu.yd. concrete, 340 lin.ft. 15 to 18 in. vitr. clay pipe (single strength), 100 cu.yd. stone subbase course, 900 cu.yd. broken stone base course, 5,400 sq.yd. bituminous macadam surface, 12,000 gal. bituminous material for penetration macadam, etc., to G. T. Franklin Co., Pocahontas, Va., $18,590. Noted Nov. 2.

North Carolina — State Hy Dept., Raleigh, grading and concrete paving 7.52 mi. State Project 901, Buncombe Co., to A. J. Wardrep, Holston Bank Bldg., Knoxville, Tenn., $292,299, 2 mi. State Project 105 A, Beaufort Co., to J. L. McGehee, Tarboro, $71,672, 5.04 mi. State Project 105 B, Beaufort Co. and 4.23 mi. State Project 101, Beaufort Co., to Public Service Production Co., Terminal Bldg., Newark, N. J., $149,365 and $132,266, respectively; grading and asphaltic paving 14.22 mi. State Project 282, Wayne Co. and grading and asphaltic concrete paving 14.53 mi. State Project 220, Duplin Co., to Union Paving Co., 30th and Locust Sts., Phila., Pa., $353,857 and $358,455, respectively; grading 14.07 mi. State Project 133, Gates and Pasquotank Counties, to C. W. Lacy, Wilmington, $91,013; clearing, grading and topsoiling, 10.89 mi. State Project 152, Hyde Co., to O. A. Mann & Co., La Grange, Ga., $70,194. Noted Nov. 2.

Fla., Milton—Comrs. Santa Rosa Co., clearing, grading and surfacing 8.04 mi. State Rd. 1, to Collins & Gillis, Milton, $19,517; 2.008 mi. Jay-Century Rd., to J. M. Hicks & Son, Brewton, Ala., $20,672; constructing Pond Creek and Till Bayou Bridges on State Rd. 1, to Doullut & Williams Co., Inc., Pensacola, $7,475. Noted Nov. 9.

Miss., Cleveland—Paving various streets with asphalt, to Hornaday Constr. Co., Memphis, Tenn., (street addres not available), $52,000.

Tennessee—State Hy. Comn., Nashville, surfacing with 1½ in. rock asphalt on 8 in. hand placed base course Federal Aid Project 37, Campbell Co., and 9.8 mi. road from point near Newport to North Carolina State line, 8 in. hand placed base course, Cocke Co., to H. L. Humbard Constr. Co., Jacksboro Park Knoxville, $136,966 plus 10% for engineering and contingencies, and $228,058, respectively; bridges on above project, to A. Lyons, Roversville, $10,752. Noted Oct. 26.

O., Canton—G. L. Sickafoose, engr. Stark Co., Court House, paving 2 mi. Uniontown-Hartville Rd., 16 ft., monolithic brick, to Urvan Bros. Co., $68,760, engrs. est. $71,000; Waynesburg Rd., from Waynesburg to county line, 16 ft., to Wise Bros., Canton (street address not available), $31,920. Noted Nov. 2.

Michigan—State Hy. Dept., Lansing, grading bridge approaches on 0.557 mi. State Trunk Line Rd. 11-53, Ottawa Co., 54,019 cu.yd. excav., to D. J. Hennessey, Box 506, Grand Rapids, $28,090.

Michigan — State Hy. Dept., Lansing, grading and surfacing 4.355 mi. State Trunk Line Rd. 22-6, Sect. B, Benzie Co., to Pierson & Allswede, Hersey, $27,123. Noted Nov. 9.

Ill., Quincy—To Sternberg-Powell Co., 37 West Van Buren St., Chicago, tarvia paving Monroe St., $46,850, Madison St., $46,612; alley between 3rd and 4th Sts. and Maine and Hampshire Sts., concrete, $1,363.

Ia., Waterloo—Comrs. Black Hawk Co., grading 13.18 mi. Primary Rd. Project 233, from here southeast through La Porte to county line, 137,143 cu.yd. excav., to Phelan & Shirley, 306 South 24th St., Omaha, Neb., $0.234 per cu.yd. Noted Nov. 9.

Kan., Eldorado—Butler Co. grading 6.258 mi. Augusta Gordon Rd. 124, 28 ft., to L. L. Beye, 1019 South Denver St., $28,615; culverts to Wilday & Reagor, Augusta, $14,651. Noted Oct. 19.

Tex., Austin—Travis Co., surfacing 3.2 mi. Highway 20, between here and Manor, 16 ft., 5½ in. crushed stone base, to Travis Co., c/o G. S. Mathews, co. judge Austin, $18,694; 1½ in. bituminous topping, to Haden & Austin, Box 1223, Houston, $15,219. Noted Nov. 9.

Tex., Ft. Worth—Tarrant Co. grading, gravel surfacing, etc., 5.75 mi. Randol Mill Rd., Project 21, 18 ft., grading and surfacing, to Purvis & Lowry, Ft. Worth, $19,443; concrete structures, to Purvis & Johnson, Ft. Worth, $16,283. Noted Nov. 2.

Tex., Georgetown—Williamson Co. surfacing 11.5 mi. Highway 2-C between here and Travis Co. line, 16 ft., 108,317 sq.yd. 1½ in. inverted penetration bituminous topping, using all limestone cover material, to Haden & Austin, Box 1223, Houston, $56,372. Noted Nov. 15.

Tex., Houston—Paving 1 mi. Milam St. from Preston to Polk Sts., 40 ft., bitulithic, to Smith Bros. Constr. Co., Sumpter Bldg., Dallas, $63,466.

Okla., Tulsa—Grading and paving 12,900 ft. Tulsa-Owasso-Collinsville Rd., 18 ft., concrete, to D. A. Burton, 544 South Victor St., $64,968.

Wash., Everett—Snohomish Co., 1½ mi. grading, 1 mi. trestle, and boom guard at Smelt Bay, to Norris Bros., Burlington, $75,000. Engrs. est. $76,000.

Calif., Bakersfield—Improving Oak St., to Federal Constr. Co., Call Bldg., San Francisco, $43,041. Noted Nov. 16.

Calif., Fresno—Fresno Co. paving Ventura Ave., 5 in. asphaltic concrete, to T. A. Hanrahan, 1361 P St., $31,294; Mt. Whitney Ave. from Camden west, 5 in. asphaltic concrete, to California Constr. Co., Mattei Bldg., $51,307; 4.97 mi. Mt. Whitney Ave. through Riverdale, 6 in. asphalt treated gravel, to N. M. Ball, Porterville, $56,098. Noted Oct. 26.

Calif., Fresno—Improving Weldon Ave., to Thompson Bros, G and Divisadero Sts., 75,830 sq.ft. grading at $0.057, 58,165 ft. asphalt $0.219, 6,630 ft. cement walks $0.225, 5,260 ft. concrete gutter $0.35, 1,340 ft. concrete curb $0.65. Noted Nov. 16.

Calif., Gustine—For 1,210 cu.yd. 5 in. concrete pavement, to Frederickson & Shannon, Cory Bldg., Fresno, $29,190. Noted Nov. 16.

Calif., San Diego—San Diego Co. paving 2.2 mi. road from Nestor to Mexican line at Tia Juana, 18 ft., 7,232 sq.yd. concrete, to California Constr. Co., Union Bldg., $52,600.

Que., Montreal—To Duranceau & Duranceau, 152 Hamilton St., 2,000 sq.yd. asphalt pavements on Marguerite Bourgeois St. $11,124, 1,167 sq.yd. concrete sidewalks Hochelaga St. $5,235, 1,120 sq.yd. DeRazilly St. $2,456, 560 sq.yd. Clarke St. $2,228; to Sicily Asphaltum Paving Co., 60 St. Viateur St., 1,270 sq.yd. asphalt pavement, Decastelnau St. $7,184, 2,057 sq.yd. Hanatoux St. $10,891; to F. Lapan, 601 Lacordaire St., 856 sq.yd. concrete sidewalks Hadley St. $4,773.

Industrial Works

PROPOSED WORK

R. I., Providence—Crompton & Knowles Loom Wks., 93 Grand St., Worcester, Mass., soon lets contract 2 story, 50 x 170 ft. plant addition, brick and steel, Harris Ave. $60,000. Private plans.

Conn., Bridgeport — Jenkins Bros., 510 Main St., having plans prepared Lockwood-Green Co., archts. and engrs., 101 Park Ave., New York City, factory, brick, steel and concrete, plain foundation. $250,000.

Conn., Torrington—Union Hardware Co., Mignon Ave., plans 3 story addition to plant, brick and steel. $50,000. Architect not announced.

N. Y., Buffalo—Island Warehouse Co., Ganson St., plans 10 story, 9 x 100 x 268 ft., flour mill, fireproof construction. $500,000. Architect not announced.

N. Y., Ithaca—New York Gas & Electric Corp., 123 South Cayuga St., plans $650,000 bond issue for extensions and improvements to plant and lines. S. J. Magee, pres.

N. Y., Lackawanna (Buffalo P. O.)—Lackawanna Steel Co. plans additions to present mills, also new rail and steel mills, furnaces and various shops, rein.-con., brick and steel, concrete pile and wood pile foundations, Hamburg Turnpike. To exceed $15,000,000. W. A. James, c/o owner, ch. engr.

N. Y., Rochester—Rochester Gas & Electric Corp., Clinton Ave. N., plans new water gas plant, to have daily capacity of 4,000,000-5,000,000 cu.ft., Platt St. on west side of Genesee River. To exceed $40,000. J. Haftnkamp, supt.

N. Y., Tonawanda — Tonawanda Power Co. Sweeney Bldg. plans rein.-con. brick and steel power plant Webster St. $150,000.

Pa., Bethlehem—Jurtz Furniture Co., plans to reconstruct factory building 3, 4 and 5 recently destroyed by fire. $800,000. Architect not announced.

Pa., Erie—Union Storage Co., 819 Commerce Bldg., having revised plans prepared by J. F. Wadsworth, engr., Commerce Bldg., 8 story and basement, 78 x 100 ft. concrete and brick plant.

W. Va. Shinnston—Alley Glass Co. soon takes bids for plant. $250,000. L. Alley, pres. Architect not announced.

N. C., Whiteville—See "Waterworks."

Fla., McIntosh—McIntosh Utilities Inc., plans cold storage and refrigeration plant. $50,000. N. A. Russell, treas. Architect not announced.

Ky., Louisville—Mengel Body Co. having plans prepared by Joseph and Joseph, archts., Francis Bldg., auto body plant, including woodworking shops, dry kilns, assembling, painting and finishing depart-

Industrial Works (Continued)

ments, containing 200,000 sq.ft. floor space, on 30 acre site, 4th and G Sts. $600,000. A. D. Allen, pres.

O., Ashland—J. E. Mathews Produce Co. had plans prepared 3 story, 60 x 75 ft. cold storage plant. L. J. Goodrich, 207 East 4th St., engr.

O., Cleveland — Grabler Mfg. Co., 6565 Bway., had plans prepared by Christian, Schwarzenberg & Gaede, archts., 1900 Euclid Ave., 1 story, 80 x 80 ft. and 3 story, 50 x 80 ft. brick, steel and concrete factories, 6565 Bway. $50,000. W. S. Bayer, secy.

O., Columbus—H. C. Goodman Co., 31 North 4th St., having plans prepared by Richards, McCarty & Bulford, archts., 584 East Broad St., 3 story and basement, 187 x 200 ft., brick and concrete factory, Broad St. $400,000.

O., Dayton—G. W. Shroyer Co., 2nd and Main Sts., plans 2 story, 50 x 200 ft., auto sales and repair shop, brick, North Main St. $60,000. Private plans.

Mich., Kalamazoo—Kalamazoo Paper Box Co. plans 3 story and basement, rein.-con. and brick factory, concrete pile foundation, 15,000 sq.ft. floor space, North Pitcher St. $200,000. Architect not selected.

Mich., Manistee—Ruggles & Rademaker, Manistee, had plans prepared by F. W. Perkins, engr., c/o owners, (1st unit), 2 story, 100 x 100 ft. rein.-con. and brick factory. $60,000.

Mich., Petoskey—Petoskey Portland Cement Co., having preliminary plans prepared by J. C. Buckley, engr., 1st Natl. Bank Bldg., Chicago, extending stock house, power plant and factory. $500,000.

Ill., Shelbyville—Voted $100,000 bonds for electric light power plant and distribution system. A. W. Fuller, 1979 Ry. Exch. Bldg., St. Louis, Mo., engr. Noted Oct. 19.

Wis., Manitowoc—Van Lente St. Clair Corp., 405 West Walnut St., Green Bay, plans 2 story, 57 x 110 ft., garage and repair shop, brick, rein.-con. and steel, plain foundation, here. $45,000. P. L. Van Lente, mgr. Architect not selected.

Wis., Milwaukee—Cedarburg Dairy Co., c/o H. Berns, 1586 Prospect Ave., having plans prepared by H. J. Esser, archt., 82 Wisconsin St., 1 story and basement, 100 x 150 ft., brick and concrete dairy, plain foundation, 11th St. $75,000.

Wis., Milwaukee—Harley-Davidson Motor Co., 3732 Chestnut St., having plans prepared by Federal Eng. Co., engrs., 444 Milwaukee St., 1 story, 80 x 145 ft., addition to factory, brick and concrete, plain foundation, Chestnut St. $45,000.

Minn., St. Paul—Hamm Realty Co., 681 East Minnehaha St., having plans prepared 2 story and basement, 150 x 150 ft., rein.-con., brick and tile, 8th and Sibley Sts. $100,000. Architect not announced.

Mo., St. Louis — Ford Automobile Co., Highland Park, Detroit, Mich., plans 1 story, 300 x 1,500 ft. rein.-con. and steel factory, plain foundation, along Mississippi River, here. Cost, incl. equipment, $5,000,000.

Tex., Dallas—E. M. Thomas of Trinity Constr. Co., engrs., Southwestern Life Bldg., takes bids in January, 2 story, 75 x 140 ft. factory addition, brick, plain foundation, for Consolidated Wafer Co., 2426 South Harwood St. $100,000.

Tex., Ft. Worth—A. F. & A. M. Southside Lodge having plans prepared by J. B. Davies, archt., Hemphill St., 3 story, garage and club rooms, rein.-con. and brick, plain foundation, 5th and Magnolia Sts. $100,000.

Tex., McKinney—Texas Cotton Mills Co. plans to double capacity of present textile mill and industrial housing. $750,000. Engineer not selected.

Tex., Texas City — U. S. Gasoline Co. plans large plant. $250,000. Architect not announced.

Okla., Ardmore—Consumers' Light and Power Co., plans 6,000 ton cold storage house. $100,000. Private plans.

Colo., Denver—Blaney-Murphy Co., Stock Yards, takes bids about Dec. 17, 5 story, packing plant on 48th and Gilpin Sts. $750,000.

Calif., Petaluma—Poultry Producers of Central California, 323 East Washington St., Petaluma, and 700 Front St., San Francisco, rejected bids constructing 110 x 210 ft., hollow tile packing plant. Project postponed indefinitely. Noted Oct. 5.

Calif., San Francisco—Star Garage Co., 150 Turk St., had plans prepared by J. L. Stewart, archt., Claus Spreckels Bldg., 2 story, rein.-con. annex to garage. $60,000.

Calif., San Francisco—Talbot Investment Co., c/o J. E. Krafft & Sons, archts., Phelan Bldg., had plans prepared 2 story and basement, rein.-con., showrooms and warehouse, 8th and Natoma Sts. $100,000. G. H. Tay Co., 2nd and Mission Sts., lessees.

Ont., Acton — Thomson Motor Supplies Ltd., plans to vote on $40,000 bonds Dec. 4, to build factory here.

Ont., Tillsonburg—Wilkie Products Co., 312 Pitts St., plans 1 story, 60 x 200 ft. factory, cement $60,000.

Ont., Tillsonburg—Windsor Tool & Machine Co., Windsor, plans concrete, brick and steel machine shop, here. $40,000. Architect not selected.

BIDS DESIRED

N. Y., Sheepshead Bay (Brooklyn P. O.) —Dec. 1, by W. Mortensen, archt. and engr., 209 West 76th St., New York, brick, steel and rein.-con. plant, Ave. Z and East 17th St., here, for Superior Ice Co., Inc., 50 East 42nd St., New York. $250,000. Noted Oct. 5.

Pa, McKees Rocks—Federal Enameling & Stamping Co., Thompson Ave., will build 3 story, steel factory. Work will be done by separate contract. F. Frimer, 1133 Charles St., engr.

W. Va., Parkersburg—Blackwood Electric Steel Corp. receiving bids for steel for 1 story, 140 x 230 ft., rein.-con., brick and steel factory. Mills, Rhones, Bellman & Nordhoff, 1234 Ohio Bldg., Toledo, O., archts.

Ill., Chicago—Ronneberg, Pierce & Hauber, archts., 10 South La Salle St., receiving bids 1 and 2 story, 75 x 140 ft. laundry, rein. con., brick and steel, Flournoy St. near La Vergne St., for New Way Home Service Corp., c/o architects. $50,000.

Wis., Kenosha—C. O. Augustine, archt., Kenosha, taking bids 1 story, 82 x 125 ft., brick and concrete garage, plain foundation, Milwaukee St., for W. Russell, 603 Milwaukee Ave. $40,000.

Wis., Milwaukee—H. J. Esser, engr. and archt., 82 Wisconsin St., taking bids 4 story and basement, 60 x 210 ft., brick and concrete factory, also 2 story and basement, 60 x 210 ft., steel and timber factory, plain foundations, for Harsh-Chapline Shoe Co., 694 Hanover St.

Wis., Waukesha—Spring City Auto Co., 220 West Main St., taking bids 1 story, 65 x 190 ft., garage and repair shop, brick, rein.-con. and steel, plain foundation. $40,000. Private plans. Noted Oct. 26.

Wis., Wausau—Oppenhamer & Ober, archts., Wausau, taking bids 2 story, 60 x 60 ft., brick, rein.-con. and steel garage, plain foundation, for Durant Motor Car Co., 208 Washington Ave. $45,000.

CONTRACTS AWARDED

N. H., Manchester—C. H. Macrury, 1042 Elm St., 3 story, 38 ft. high, 50 x 50 ft., garage and repair shop, rein.-con. and brick, plain foundation, Burch and Lowell Sts., to C. A. Golden, 64 Concord St. Archts. est. $50,000.

Mass., Boston — Boston Storage Warehouse Co., Westland Ave., 4 story, 30 x 50 ft. warehouse addition, brick, Huntington Ave. and Bryant St., to Evatt Constr. Co., 161 Devonshire St., $40,000.

Mass., Charlestown (Boston P. O.)—General Baking Co., Bunker Hill St., 2 story and basement, garage, brick and steel, plain foundation, Ferrin St., to C. A. Dodge Co., Erie and Albany Sts., Cambridge. Archts. est. $100,000.

Mass., West Lynn (Lynn P. O.)—General Electric Co. will build Factory 63, 4 story, 122 x 157 ft., brick and concrete, by day labor. $200,000. Private plans. Noted Sept. 14.

Mass., Weymouth (Boston .P. .O.)—Brooks-Skinner Co., will build 2 story, 40 x 130 ft. factory, brick and concrete, by day labor. $40,000. Private plans.

Conn., Bridgeport—Locomobile Co. of America, Inc., 2 Main St., 1 story, 60 x 180 ft., and 40 x 200 ft. additions to plant, brick and steel, plain foundation, to Levering & Garrigues Co., 552 West 23rd St., New York City.

Conn., Hartford—Kaplan & Goldberg, 32 John St., will build 1 story, 90 x 100 ft. garage and service station, brick and steel, plain foundation, John St., by day labor. $40,000. F. C. Walz, 407 Trumbull St., archt.

Conn., Waterbury—Reymond Bros., 400 South Main St., 2 story, 40 x 80 ft. addition to bakery, and 1 story, 56 x 85 ft. addition to garage, both brick, South Main St., to Tracy Bros. Co., 52 Benedict St. Archts. est. $40,000.

N. Y., Brooklyn—C. D. Strang, 1[illegible]5 South Portland St., 5 story, 64 x 115 ft., rein.-con. and brick warehouse addition, concrete footings, Coney Island Ave., to Barney-Ahlers Constr. Co., 110 West 40th St., New York. Archts. est. $250,000. Noted Oct. 26.

N. Y., Rochester—Rochester Taxicab Co., 58-64 Plymouth Ave. N., 2 story, 90 x 200 ft., brick garage and repair shop, to P. G. Houck, 503 Cox Bldg. Archts. est. $125,000.

Pa., Oakmont—Mills, Rhines, Bellman & Nordhoff, archts., 1234 Ohio Bldg., Toledo, O., 2 story and basement, 74 x 94 x 157 x 158 ft. factory addition, here to Hughes-Foulkrod Co., Oliver Bldg., Pittsburgh, for Valve Bag Co. of America, 3444 Summit Ave., Toledo, O. Noted Oct. 19.

Pa., Pittsburgh—Englert Mfg. Co., 2133 East Carson St., 2 story and basement, 68 x 120 ft. factory, South 25th and Jane Sts., to Duquesne Constr. Co., Cypress and Aspen Sts. Archts. est. $75,000. Noted Sept. 7.

Pa., Pittsburgh—F. J. Kress Box Co., 3030 Liberty Ave., 3 story and basement, 70 x 155 ft. brick addition to factory, 2930-38 Liberty Ave., to D. T. Riffle, 1007 Forbes St. Engrs. est. $40,000. Noted Nov. 2.

Pa., Pittsburgh—Neely Nut & Bolt Co., 46 South 22nd St., 1 story, 21 x 120 x 150 x 173 ft. brick and steel plant, South 22nd St., to McClintic-Marshall Co., Oliver Bldg. Noted Oct. 19.

Pa., Ridgeway—Hyde Murphy Co. will build 4 story, 60 x 90 ft. brick addition to factory, by day labor. Private plans.

W. Va., Charleston—Evans Lead Co., Essex Falls, N. J., 1 story, 50 x 180 ft. and 4 story, 50 x 180 ft., plant, steel, here, to Higginbotham & Jones, Constr. Co., Charleston.

O., Akron—General Tire & Rubber Co., 1708 East Market St., 1 story, 40 x 180 ft., and 3 story, 60 x 100 ft., brick and steel factory additions, to H. P. Moran Co., Terminal Bldg. Archts. est. $100,000 Noted Nov. 9.

O., Cleveland—R. W. Kaase Co., 2836 Lorain Ave., 2 story, 68 x 150 ft., brick, steel and concrete bakery, to H. E. Klefman, 4319 Woodbridge Ave. Archts. est. $150,000. Noted June 1.

O., Mansfield—Ideal Electric & Mfg. Co., 153 East 5th St., 1 story, 100 x 150 ft., brick and steel manufacturing plant, 5th St., to Austin Co., 16112 Euclid Ave., Cleveland.

Mich., Highland Park (Detroit P. O.)—Ford Motor Co., 1 story, rein.-con., brick and steel transfer building and loading platforms, plain foundation, Manchaster Ave., to H. G. Christman & Co., 315 Stevens Bldg., Detroit, $400,000.

Mich., Muskegon—Central Paper Co., 3 and 4 story, 90 x 110 ft. warehouse, 3 story, 55 x 300 ft. machine room, 3 story, 42 x 53 ft., 4 story, 46 x 90 ft., 2 story, 45 x 150 ft. buildings, to Markle Cement Co., Muskegon. Archts. est. $200,000. Noted Nov. 9.

Ill., Chicago—Advance Fdry. and Pattern Co., 2734 West 36th St., 1 and 2 story, 55 x 142 ft. factory addition, rein.-con., brick and steel, to Vagtborg Constr. Co., 6843 Merrill Ave. Archts. est. $50,000. Noted Oct. 19.

Ill., Chicago—F. T. Hoyt, c/o A. S. Alschuler, archt., 28 East Jackson Blvd., 3 story, 105 x 175 ft. printing plant, rein.-con., brick and steel, Congress and Laflin Sts., to J. W. Snyder & Co., Ashland and Congress Sts. Archts. est. $250,000. Noted Oct. 19.

Ill., Chicago — Voightmann & Co., 445 West Erie St., 1 story, 280 x 300 ft. factory, rein.-con., brick and steel, 4158 Schubert Ave., to F. H. Stowell Co., 28 North Clinton St. Archts. est. $150,000.

Ill., Marshall—For 1 story, 50 x 80 ft. brick and concrete power house, 2 generators direct connected to Chuse engines, switchboard, 2 boilers, piping, etc., to Chuse Engine and Mfg. Co., 1411 Chemical Bldg., St. Louis, Mo., $52,181. Noted Oct. 19.

Wis., Appleton—Manthey & Puth, Washington and Morrisson Sts., 1 story, 70 x 85 ft., garage and repair shop, brick, rein.-con. and steel, plain foundation, College St., to E. Johnston, 847 State St. Archts. est. $40,000.

Wis., Fond du Lac—Gurney Refrigerator Co., 64 South Brooks St., 3 story, 60 x 140 ft., factory and power house, brick, rein.-con. and steel, plain foundation, to Hutter Constr. Co., 128 Western St. Archts. est. $60,000.

Wis., Milwaukee — M. S. Mann, 1219 Holton St., 1 story and basement, 50 x

Industrial Works (Continued)

100 ft., brick and concrete garage, plain foundation, to M. Wachofsky, 539 4th St. Archts. est. $40,000.

Wis., Milwaukee — Milwaukee-Western Fuel Co., 120 Wisconsin St., 1 story, 120 x 140 ft., repair shops, brick and concrete, plain foundation, Clinton St., to Klug & Smith Co., 69 Wisconsin St. Engrs. est. $60,000.

Wis., Milwaukee—Shadboldt & Boyd Iron Co., 129 West Water St., 1 story, 110 x 110 ft., brick and timber warehouse, plain foundation, Dousman St., to Jahns & Knuth, 1915 Chestnut St. Archts. est. $40,000.

Wis., Milwaukee—Wisconsin Ice & Coal Co., 216 West Water St., 1 story and basement, 114 x 120 ft., ice manufacturing plant, brick and concrete, plain foundation, 31st and Galena Sts., to R. L. Reisinger & Co., 464 Oakland Ave. Engrs. est. $60,000.

Wis., Racine—Racine Mfg. Co., 6th and Mead Sts., 2 story, 50 x 120 ft., brick, rein.-con. and steel factory, plain foundation, Mead St., to Nelson & Co., Janes Blk. Archts. est. $50,000.

Wis., Racine—Western Screw & Specialty Co., Ham Ave., 2 story, 50 x 160 ft., brick, rein.-con. and steel factory, plain foundation, to L. V. Constr. Co., 1120 16th St., Milwaukee. Archts. est. $40,000.

Wis., Waupun — Althouse — Wheeler Co. will build 2 story factory, brick, steel and rein.-con., plain foundation, by day labor. $50,000. H. O. Thompson, mgr. Private plans.

Minn., Minneapolis — Northwestern Tire Co., 622 3rd Ave. S., 2 story and basement, 40 x 40 x 120 ft. sales and service station, rein.-con. and laminated wood, Harmon Pl. between 10th and 11th Sts., general contract to J. L. Robinson Co., 511 South 7th St. Total $50,000. Noted Aug. 31.

Calif., San Francisco—General Mfg. Co., Pacific Bldg., 1 story, 140 x 192 ft. factory, concrete, Railroad, Paul and San Bruno Aves., to G. Wagner, 251 Kearny St., $35,000. Noted Nov. 16.

Calif., San Francisco—Goodrich Rubber Co., 401 Mission St., 6 story, 65 x 160 ft., rein.-con. warehouse and loft building, 2nd St., to Clinton Constr. Co., 923 Folsom St., $75,000. Noted Nov. 9.

Calif., San Francisco—Natl. Ice Cream Co., 371 Guerrero St., 2 story, rein.-con. addition to plant, Guerrero St. near 16th St., to Barrett & Hilp, 918 Harrison St., $50,000.

Calif., San Francisco—Simon Bros., 150 Townsend St., 2 story and basement, 36 ft. high, 86 x 250 ft., warehouse, Townsend St., to Barrett & Hilp, 918 Harrison St., $44,000. Noted Oct. 19.

Calif., San Francisco—Simmons Co., 198 Bay St., 3 story, factory and warehouse, rein.-con., Powell and Bay Sts., to Barrett & Hilp, 918 Harrison St., $250,000. Noted Oct. 12.

Que., Hull—Lion Meade Tire Co., 2 story rein.-con. and brick fractory, Wrightville St., to E. Caron & Son, 158 Champlain St. Archts. est. $75,000.

Ont., Niagara Falls — Welland Packing Co. Ltd., factory along Michigan Central R.R. tracks, to Gardner Constr. Co., Niagara Falls, $44,000.

Buildings

PROPOSED WORK

Mass., Boston—High School—City takes bids about Dec. 1, high school, Dunbar Ave. $1,000,000. McLaughlin & Burr, 88 Tremont St., archts. Noted Oct. 19.

Mass., Roxbury (Boston P. O.)—High School—Schoolhouse Dept., City Hall Annex, Boston, plans 3 story, 20 room, brick, Dunreath St. $350,000. H. H. Atwood, 61 Alban St., Dorchester (Boston P. O.), archt.

N. Y., Brooklyn—College—Adelphi College, St. James Pl., had plans prepared by McKim, Mead & White, archts. and engrs., 101 Park Ave., New York, group of buildings, brick, steel and stone, plain foundations, Washington Ave. $1,250,000. First unit will be ready for estimates soon.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York, plans P. S. 187, brick, steel and stone, plain foundation, Delamere Pl. near Kings Highway, here. $500,000. C. B. J. Snyder, Flatbush Ave. extension, archt. and engr.

N. Y., Jamestown—Hotel—Hotel Jamestown, plans 9 story, 121 x 165 ft., brick and steel, 3rd and Cherry Sts. $1,225,000. F. O. Anderson, c/o Empire Case Goods Co., 142 Foote Ave., pres. executive com. Architect not selected.

N. Y., New York—Apartment—Ninety-fifth St. Realty Corp., 598 Madison Ave., having plans prepared by J. E. R. Carpenter, archt. and engr., 598 Madison Ave., 9 story, 100 x 100 ft., brick, steel and stone, plain foundation, 95th St. near 5th Ave. $800,000.

N. Y., Niagara Falls — Hotel—P. A. Schoelkopf, c/o Chamber of Commerce, plans hotel. $1,000,000.

N. Y., Niagara Falls—Store and Office—A. M. Atlas, Falls St., plans 38 x 186 ft., Main St. Architect not announced.

N. J., Elizabeth—High School—Bd. Educ. having plans prepared by Kilham, Hopkins & Greeley, archts. and engrs., 9 Park St., Boston, Mass., for high school, Westfield and Cherry Sts. $495,000. A. P. Hughes, 537 Jefferson Ave., secy.

Pa., Clairton—Schools—Voted $550,000 bonds for new schools.

Pa., Duquesne—School—Voted $300,000 bonds for new school.

Pa., Elwood City—School—Bd. Educ. having plans prepared by E. Stotz, archt., Monongahela Bank Bldg., Pittsburgh, 2 story and basement, 87 x 190 ft. rein.-con., brick and stone, Crescent Ave. $220,000.

Pa., Mt. Union—School—Voted $200,000 bonds for new school in 3rd ward.

Pa., Narberth—High School—Voted $165,000 bonds for high school.

Pa., Norristown—High School—Voted $500,000 bonds for high school.

Pa., Phila.—Bank—Northern Natl. Bank, c/o W. H. Bellew, 7th and Dauphin Sts., having plans prepared by P. A. Davis, archt., 1713 Sansom St., 2 story and basement, 50 x 70 ft. brick, steel, stone and granite, plain foundation, 7th and Dauphin Sts. $200,000.

Pa., Pittston—School—Bd. Educ. having plans prepared by J. McGlynn, archt., Wilkes-Barre, for new school. Cost between $175,000 and $200,000.

Pa., Springfield—High School—Voted $200,000 bonds for high school.

Pa., Williamsport—Auditorium and Gymnasium—Dickinson Seminary, c/o B. C. Connor, plans 3 story and basement, 90 x 140 ft., stone, steel and brick gymnasium. $100,000, also plans to build auditorium (2,000 seating capacity), later on, $200,000.

D. C., Wash.—Administration—Garfield Memorial Hospital, 10th St. and Florida Ave., N. W., having plans prepared by Marsh & Peters, archts., 1302 F St., for administration building. $250,000.

D. C., Wash.—Bank—Federal American Natl. Bank plans addition. $500,000. J. Poole, pres. Architect not selected.

D. C., Wash.—Temple—Eastern Star c/o M. E. Keys, secy., Masonic Temple, 13th St. and New York Ave., plans temple, here. $1,000,000. Architect not selected.

W. Va., Charleston—Lodge—H. S. Kyle, archt., Union Bank Bldg., soon takes bids 6 story, 50 x 125 ft., concrete and steel, Dunbar St., for Elkana Lodge, Knights of Pythias. $200,000. Noted May 18.

N. C., Greensboro—Church—First Presbyterian Church plans church. $225,000. A. M. Scales, committeeman. Architect not announced.

Fla., Plant City—Hotel—Plant City Hotel Corp., rejected bids opened Nov. 1, 7 story, 105 x 105 ft., brick and steel. $150,000. Corporation dissolved on account of inability to build with available funds. Noted Oct. 5.

O., Cleveland—Apartment—L. Abrams Co., 525 Engineers Bldg., having plans prepared by D. A. Reamer, archt., 17920 Detroit Ave., Lakewood, 7 story and basement, brick, steel and concrete, Euclid Ave. east of Ford Dr. $500,000. Noted July 6.

O., Cleveland—Apartment—C. B. Grundstein, 14188 Superior Rd., having plans prepared by A. F. Janowitz, archt., Permanent Bldg., 3 story and basement, 100 x 142 ft., brick and timber, North Moreland Blvd. $200,000.

O., Cleveland — Library — Cleveland Pub. Library Bd., Kinney Levan Bldg., having plans prepared by Walker & Weeks, archts., 1900 Euclid Ave., superstructure of 4 story, 200 x 200 ft., steel and concrete, East 3rd St. and Superior Ave. $4,000,000.

O., Cleveland—School—Bd. Educ., East 6th St. and Rockwell Ave., plans 2 story, brick, steel and concrete, Ira and Vandalia Aves. $200,000. W. R. McCornack, East 6th St. and Rockwell Ave., archt.

O., Cleveland—Schools—Bd. Educ., East 6th St. and Rockwell Ave., plans 2 story, 12 room addition to school, West 103rd St. and West Blvd., $150,000, 2 story, 3 room additions to Glenville High, Detroit Junior High and Corlett Junior High Schools, $150,000, all brick, steel and concrete. W. R. McCornack, East 6th St. and Rockwell Ave., archt.

O., Cleveland—Schools—Voted $500,000 bonds for 2 story, 22 room, elementary school, East 161st St. and Groveland Ave., also $900,000 bonds for 3 story, 40 room, Junior Commercial School, West 41st St. and Randall Rd., both brick, steel and concrete. W. R. McCornack, East 6th St. and Rockwell Ave., archt.

O., Columbus—Administration—Richard, McCarthy & Bulford, archts., 584 East Broad St., preparing plans and soon take bids 6 story and basement, 150 x 187 ft., brick, steel and concrete, Broad and Belle Sts., for H. C. Goodman Co., 31 North 4th St. $400,000-$500,000. Noted Jan. 26.

O., Dayton—School—Bd. Educ. having plans prepared by Schenck & Williams, archts., Mutual Home Bldg., 1 story and basement, school for crippled children, brick and rein.-con. $150,000. P. C. Stetson, supt.

O., Dayton—Temple—Dayton Lodge F. & A. M., c/o S. R. Jones, chn. building com., Masonic Temple, plans rein.-con. and brick. $1,500,000. Architect not selected.

O., Lakewood (Cleveland P. O.)—High School—Bd. Educ., Warren Rd., having preliminary plans prepared by C. W. Hopkinson, archt., Rose Bldg., Cleveland, 3 story, 27 room, brick, steel and concrete, Hilliard Rd. near Wager Ave. $300,000.

O., Painesville—Hospital—Lake Co. Hospitial Assn., c/o L. J. Spaulding, clk., voted $200,000 bonds for 3 story, brick, steel and concrete. Architect not selected.

Mich., Ludington — Hospital — Paulina Stearns Memorial Hospital, plans 3 story and basement, rein.-con. and brick, plain foundation. $200,000. Architect not selected.

Ill., Chicago — Apartment — Ludgin & Leviton, archts., 53 West Jackson Blvd., preparing plans 3 story and basement, 143 x 145 ft., rein.-con., brick and steel, Spaulding and Schubert Aves. $350,000. Owner's name withheld.

Ill., Chicago—Club and Office—Covenant Club, c/o W. W. Ahlschlager, archt., 65 East Huron St., having plans prepared 10 story, 80 x 92 ft., rein.-con., brick and steel, Dearborn St. near Madison St. $1,000,000.

Ill., Chicago—Store and Apartment—A. Goldstein, c/o Rissman & Hirschfield, archts., 646 West Randolph St., having plans prepared 3 story and basement, 200 x 200 ft., rein.-con., brick and steel, Madison St. and Central Park. $400,000.

Ill., Wilmette—Church—St. Johns Evangelical Lutheran Church having plans prepared by Loew & Bollenbacker, archts, 108 South La Salle St., Chicago, 1 story and basement, 95 x 105 ft., rein.-con., brick and steel, Wilmette St. and Park Ave. $150,000.

Wis., Green Bay—Hotel—H. O. Wood, promoter, 172 3rd St., Milwaukee, organizing company and plans to build 9 story, 130 x 160 ft., brick and concrete, plain foundation, Adams St. $800,000. Architect not selected.

Wis., Madison—Church, etc.—Presbyterian Synod of Wisconsin, Murray and State Sts., plans 3 story church, incl. auditorium and student club, brick, rein.-con. and stone, plain foundation, Murray St. $150,000. Architect. R. Owens, secy.

Wis., Mayville—High School—Bd. Educ. having plans prepared by Parkinson & Dockendorff, archts., Linker Bldg., La Crosse, 2 story, 112 x 274 ft., brick, rein.-con. and steel, plain foundation. $250,000.

Wis., Oshkosh — School — Bd. Normal School Regents, Capitol, Madison, plans 3 story, 160 x 300 ft., incl. dormitories, class rooms, laboratories, rein.-con., brick and steel, plain foundation. $350,000. Architect not selected.

Wis., River Falls—School—Bd. Normal School Regents, Madison, having plans prepared by A. Peabody, archt., Capitol Bldg., Madison, 3 story, 100 x 210 ft., brick, rein.-con. and steel, plain foundation, here. $265,000.

Wis., Stevens Point—School—Bd. Normal School Regents, Capitol, Madison, plans 3 story, 150 x 250 ft., rein.-con., steel and brick, plain foundation. $300,000. W. J. Kittle, secy. Architect not selected.

Ia., Cedar Falls—Dormitory—State Bd. Educ., State House, Des Moines, having preliminary plans prepared by Proudfoot, Bird & Rawson, archts., 810 Hubbell Bldg., Des Moines, concrete, brick and stone, on campus of State Teachers College, here. $200,000.

Ia., De Witt—School—Bd. Educ. plans 2 story and basement, rein.-con., brick, tile and stone. $150,000. H. Seifert, secy. Architect not announced.

Ia., Waterloo—Y. W. C. A., c/o W. H. Langlas, pres., had plans prepared by M. B. Cleveland, archt., Waterloo, and W. F. Thompson, archt., 342 Madison Ave., New York City, 3 story and basement, with two 2 story wings, rein.-con., brick, tile and stone. $150,000.

Buildings (Continued)

Minn., Bemidji—College—State Bd. of Control, St. Paul, plans 3 story brick addition to main building, $113,000 3 story addition to dormitory $95,000, and heating plant $65,000, at State Teachers College, here. C. H. Johnston, 715 Capital Bank Bldg., St. Paul, archt.

Minn., Minneapolis—Schools— Bd. Educ. plans to construct schools. $2,500,000. G. F. Womrath, business supt. Bureau of Design, Bd. Educ., 305 City Hall, archts.

Minn., Minneapolis—School and Rectory—Church of the Annunciation, c/o F. Lang, 5101 Nicollet Ave., having plans prepared by Damon, O'Meara & Hills, archts., 1123 Merchants Natl. Bank Bldg., St. Paul, 2 story and basement school, brick, stone and tile, rectory, brick, Lyndale Ave. S. and 50th St. $150,000.

N. D., Fargo—Schools—Bd. Educ. plans two 2 or 3 story and basement, rein.-con., brick and tile. $150,000 up. E. C. Guthrie, secy. Architect not announced.

Mo., St. Louis—Apartment—Guild Investment Co., c/o Weisels-Gerhart, 8th and Chestnut Sts., plans 6 story, 115 x 215 ft., rein.-con., brick and steel, plain foundation, West Pine and Euclid Sts. $500,000. Architect not announced.

Mo., St. Louis—Medical—St. Louis Medical Society, 3531 Pine St., having plans prepared by A. B. Grove, archt., 320 North 4th St., 2 story and basement, 75 x 100 ft., rein.-con., brick and stone, plain foundation, Lindell Blvd. $250,000.

Mo., St. Louis—Office—Travelers Protective Assn. of America, Syndicate Trust Bldg., plans rein.-con., brick and steel, concrete pile foundation. $1,000,00. J. H. Stafford, secy. and treas. Architect and engineer not selected.

Tex., Dallas—Apartment-Hotel—G. Gonzeles, 1227 Lenway St., having plans prepared by J. O. Taft, archt., Dallas, 7 story, concrete, steel, brick and tile, plain foundation, Masten and San Jacinto Sts. $500,000.

Tex., Ft. Worth — Schools — Bd. Educ. plans election in April to vote on $1,500,000 bonds issue for 3 schools. M. H. Moore, supt.

Tex., Laredo—Hotel—G. Little had plans prepared by M. L. Diver, engr., Calcasieu Bldg., San Antonio, and C. H. Page & Bros., archts., Austin Natl. Bank Bldg., Austin, and soon takes bids 5 story (designed for 7 story) rein.-con. and brick. $200,000.

Tex., McKinney—Housing—See "Industrial Works."

Tex., San Antonio—Auditorium—City having preliminary plans prepared by W. E. Simpson & Co., engrs., Natl. Bank Commerce Bldg., and R. H. Cameron, archt., Central Trust Bldg., 2 story, 100 x 215 ft., rein.-con., terra cotta, stone and marble, caisson foundation, Madison Square Park. $500,000. City hopes to raise additional $300,000 to apply on building.

Tex., San Antonio—College—Methodist Episcopal Church South, Nashville, Tenn., having plans prepared by A. B. and R. M. Ayres, archts., 626 Bedell Bldg., 2 story college, incl. mens dormitory, ladies dormitory, laboratory, fine arts, gymnasium, heating plant, presidents home, etc., rein.-con. and stone, Blanco Rd. and city limits. $250,000.

Tex., San Antonio—High School—Pub. School Bd. having plans prepared by W. E. Simpson Co., engrs., Natl. Bank Commerce Bldg., and Phelps & De Wees, archts., Gunter Bldg., 1 story junior high school, incl. cafeteria, rein.-con., brick, tile and stone, caisson foundation, New Braunfels Ave., Cooper and Delmar Sts. $200,000.

Wash., Seattle—Apartment—J. H. Williams, c/o H. H. James, archt. ,Amer. Bank Bldg., having plans prepared 10 story, 60 x 120 ft., rein.-con. and brick, 6th and University Sts. $250,000.

Wash., Spokane—Clubhouse—Knights of Columbus, 605 1st St., having plans prepared by F. P. Rooney, archt., Auditorium Bldg., and takes bids in spring for clubhouse. $200,000.

Wash., Seattle—Institution—St. Vincent's Home for Aged having plans prepared by J. Graham, archt., Smith Bldg., 5 story and basement, 276 x 294 ft., rein.-con. and brick, consisting of 3 distinct but attached units arranged in H form, providing home for aged, also administration quarters for Pacific Coast Provincialate of the Order of Sister of Charity, 35th St. S.W. and West Edmund St. $1,000,000.

Calif., San Francisco — College — State having plans prepared by B. J. Maybeck, archt., Lick Bldg., and G. B. McDougall, state archt., Forum Bldg., Sacramento, group rein.-con. and steel buildings, Haight and Buchanan Sts., here. $500,000. Only portion of funds are available at this time, construction will be governed accordingly.

Que., Montreal—Office—G. H. Walton, 259 St. James St., having plans prepared by Ross & McDonald, archt., Belmont St., 10 story, about 200 ft. wide, St. Catherine St. from Peel St. to Bellevue Apartments.

Ont., Windsor—Bank—Provincial Bank of Canada, 7 Place D'Armes, Montreal, Que., plans 3 branch bank buildings, one here $300,000 and one at Ford and Walkerville, $50,000 each, concrete, brick and steel. Architect not selected.

BIDS DESIRED

N. Y., Binghamton—School—Dec. 20, by Bd. Contr. & Supply, 2 story and basement, 157 x 178 ft., brick, plain foundation, Starr Pl. $375,000. Bartoo & Dickerman, Peoples Trust Bldg., archts. W. E. Weller, City Hall, engr. Noted April 27.

N. Y., Freeport—High School—Dec. 4, by Bd. Educ., brick, steel and stone, plain foundation, Pine St. $600,000. W. Adams, 15 West 38th St., New York, archt. and engr. Noted Oct. 23.

N. Y., New York—Armory—Nov. 27, by Armory Bd., City Hall, reconstructing Squadron A, 95th St. Former bids rejected. Private plans. Noted Nov. 2.

Md., Baltimore—High School—Nov. 29, by Bd. of Awards, Northeastern Junior High School, Clifton Park. W. F. Broening, pres. H. G. Perring, ch. engr. Noted Oct. 12.

O., Cleveland—High School—Dec. 4, by Bd. Educ., East 6th St. and Rockwell Ave., 3 story, brick, steel and concrete, West 46th St. and Hyde Ave. $800,000. W. R. McCornack, East 6th St. and Rockwell Ave., archt.

O., Cleveland—Store and Apartment—M. Price, 441 Eddy Rd., taking bids 3 story and basement, 110 x 112 ft., brick and timber, 129th St. and St. Clair Ave. $150,000. Allen-Osborn Co., Rose Bldg., archts.

O., Cleveland — Store and Office — H. Guenther, 1733 Euclid Ave., taking bids 2 story and basement (designed for 12 story), 50 x 189 ft., brick, steel and conerete, 1510 Euclid Ave. $150,000. W. S. Ferguson Co., 1900 Euclid Ave., archts. and engrs. Noted Sept. 21.

O., Toledo—School—Nov. 27, by Bd. Educ., 2 story and basement, 200 x 275 ft., rein.-con., brick and steel, plain foundation, Sylvania and Jakman Rds. $240,000. E. E. Gee, Toledo (street address not available), archt.

Mich., Detroit—Church—Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., taking bids and opens same about Dec. 1, for 2 story, 60 x 120 ft. concrete, brick and steel, plain foundation, Jefferson Ave., for Jefferson Ave. Presbyterian Church, Rivard and Larned Sts. $350,000. Noted Nov. 2.

Ill., Chicago—Apartment—B. H. Drollinger, 4807 West Madison St., and A. S. Hecht, archt., 155 North Clark St., receiving bids 3 story and basement, 135 x 148 ft., rein.-con., brick and steel, Austin Blvd. and Fulton Sts. $250,000.

Ill., Chicago—Apartment—R. F. France, archt., 155 North Clark St., receiving bids 2 story and basement, 125 x 300 ft., rein.-con., brick and steel, Oakdale St. between Sheffield and Lincoln Sts., for M. T. Morrissey, 140 South Dearborn St. $300,000.

Ill., Chicago—Apartment—P. F. Olsen, archt., 127 North Dearborn St., receiving bids 3 story and basement, 81 x 125 ft., rein.-con., brick and steel, Ainslee and Washentaw Sts. $150,000. Owner's name withheld.

Ill., Chicago—Apartment—B. J. Regnall, 19 South La Salle St., receiving bids 2 story and basement, 100 x 160 ft., rein.-con., brick and steel, Lincoln St. and Foster Ave. $175,000. J. A. Nyden, 190 North State St., archt.

Ill., Chicago — Apartment — Ronneberg, Pierce & Hauber, archts., 10 South La Salle St., receiving bids 3 story, 80 x 155 ft., rein.-con., brick and steel, Ashland and Ainslee Sts. $150,000. Owner's name withheld.

Ill., Chicago—Apartment—J. Weinstein, 3945 West 14th St., receiving bids 3 story, 73 x 180 ft., rein.-con., brick and steel, Washington Blvd. and La Vergne St. $200,000. A. L. Himelblau, 179 West Washington St., archt.

Ill., Chicago—Store and Office—J. F. Mardane, 931 Polk St., receiving bids 2 story, 140 x 150 ft., rein.-con., brick and steel (excluding masonry and carpentry work which will be done by day labor) 5600-12 West Madison St. $250,000. Levy & Klein, 111 West Washington St., archts.

Ill., Park Ridge—Store, Office and Apartment—Barry, Byrne & Ryan, archts., 104 South Michigan Ave., Chicago, receiving bids 2 story and basement, 145 x 200 ft., rein.-con., brick and steel, Prospect Ave., for Home Realty Co., here. $200,000.

Wis., Milwaukee—Apartment—J. Hunholz, 2310 Vliet St., taking bids 6 story and basement, 54 x 104 ft., brick, tile and concrete, plain foundation, Biddle St. $150,000. Private plans.

Ia., Corydon—High School—Dec. 7, by Bd. Educ., 3 story and basement, 67 x 121 ft., rein.-con., brick, tile and stone. $150,000. W. Gordon, 319 Hubbell Bldg., Des Moines, archts.

Minn., Chisholm—High School—Dec. 15, by J. P. Vaughn, supt. of schools, 3 story, 198 x 395 ft., rein.-con., brick and stone. $500,000. German & Jenssen, Exch. Bldg., Duluth, archts. and engrs.

Minn., Duluth—Hotel—Jan. 2, by Duluth Residential Hotel Co., c/o Whitney Wall Co., Torrey Bldg., 10 story and basement, 140 x 160 ft., rein.-con. and brick, Superior St. and 9th Ave. E. $1,000,000. Holstead & Sullivan, 407 Palliadio Bldg., archts. and engrs.

Tex., Houston — Hospital — A. C. Finn, archt. and engr., Foster Bldg., taking bids concrete, steel and brick hospital for G. Herman Estate, Houston. $400,000 for 1st unit, total $1,000,000.

Tex., Memphis—Courthouse—Dec. 4, by W. A. McIntosh, judge Hall Co., 2 story, 72 x 106 ft., rein.-con. and brick. $150,000. C. H. Page & Bros., Austin Natl. Bank Bldg., Austin, archts. Noted Nov. 9.

Tex., San Antonio — Church — Catholic Church receiving bids 1 story, 105 x 200 ft., rein.-con., caisson foundation, Market and St. Marys Sts. $350,000. M. L. Diver, Calcasieu Bldg., engr. F. B. Gaenslen, Bedell Bldg., archt.

Tex., Wichita Falls—College—Dec. 5' by Bd. Educ., Independent School Dist., 2 story, rein.-con. and brick, plain foundation. $150,000. R. C. Jameson, 342 Rosemont Bldg., Dallas, engr. W. B. Ittner, Educ. Bldg., St. Louis, Mo., archt.

Calif., Lodi—School—Dec. 7, by Trustees Lodi Union High School Dist., 2 story science building, 1 story manual training building and 2 story auditorium, brick, steel and concrete. $250,000. Wright & Satterlee and L. S. Stone, Bank of Italy Bldg., Stockton, archts.

BIDS RECEIVED

Mass., Boston—Police Station—Public Buildings Dept., City Hall, opened bids Nov. 14, 10 story, 65 x 90 ft., brick and steel, plain foundation, Milk St., from M. Seretto, 3 Tremont Row, $498,000, J. Slotnick Co., 448 Bway., Chelsea, $526,193 ; J. Bowen Co., 184 Dudley St., Roxbury (Boston P. O.), $543,000. Noted Nov. 9.

N. Y., Attica—High School—Bd. Educ. opened bids Nov. 10, 3 story, 80 x 150 ft., rein.-con. and brick, Prospect St., from Morris & Allen, Prudential Bldg., Buffalo, $259,700 ; Metz Bros., 1295 Fillmore Ave., Buffalo, $282,000 ; Walker Contractors, Buffalo (street address not available). $294,000. Archts. est. $250,000. Noted Oct. 26.

Mich., Detroit—Schools—Bd. Educ., 1354 Bway. Ave., opened bids Nov. 6, 2 story and basement, 28 ft. high, 171 x 191 ft., rein.-con., brick and steel, plain foundation, Palmer Ave., from Martin & Krausman Co., 606 Vinton Bldg., $403,500, M. A. Mahoney, 400 Penobscot Bldg., $416,524, J. Bollin Co., 2032-1st Natl. Bank Bldg., $443,000 ; 2 story and basement, 24 ft. high, 58 x 182 ft. and 67 x 181 ft., rein.-con., brick and steel, plain foundation, Duboise and Waterloo Sts., from F. N. Cooper, 6370 Gratiot Ave., $321,104, A. W. Kutsche & Co., 535 Griswold St., $325,597, Corrick Bros., 507 Owen Bldg., $326,818. Noted Sept. 21 and Oct. 19.

Mo., St. Louis—Schools—Bd. Educ., 9th and Locust Sts., (1) Cyrus P. Waldbridge Grade School, 2 story and basement, 95 x 221 ft., rein.-con. and brick, plain foundation, Lillian and Davidson Ave., (2) Edward H. Long Grade School, 2 story and basement, 95 x 221 ft., rein.-con. and brick, plain foundation, Morganford Rd. and Walsh St., (3) 2 story and basement, 40 x 50 ft. wings to Sumner High School. (a) building complete excluding plumbing, sewering, gas fitting, heating and ventilating apparatus, air washer, heat regulation, electric light wiring and fixtures, clocks, bells, telephone bells and vacuum cleaner, (b) heating and ventilating apparatus, air washer and heat regultaion, to Humes-Deal Co., Century Bldg., (1a) $253,579 (2a) $281,966 ; E. P. Ambler, 2822 LaSalle St., (1b) $35,052 (2b) $35,052 ; Kellerman Contg. Co., Victoria Bldg., (3a) $45,753 ; Bradley Heating Co., 3834 Olive St., (3b) $11,900. Noted Nov. 16.

CONTRACTS AWARDED

Mass., Adams—High School—Town, c/o C. T. Plunkett, 3 story, 120 x 200 ft., Commercial St., to C. H. Cunningham, 23 Central St., Lynn, $350,000. Noted May 11.

Buildings (Continued)

Mass., Boston—Apartment—P. Glazer, Brookledge St., Grove Hill, will build 3 story and basement, 50 x 120 ft., 53 x 70 ft. and 65 x 75 ft., brick and stone, plain foundation, Cheney St., by day labor. $150,000. S. S. Levy, 39 Court St., archt.

Mass., Boston — Apartment — Modern Realty Co., 1185 Commonwealth Ave., will build 6 story, 75 x 200 ft., brick and stone, Commonwealth Ave., by day labor. $500,000. Silverman, Brown & Heenan, 51 Cornhill, archts.

Mass., Boston—Business—Boston Flower Exchange Inc., 1 Winthrop Sq., 2 story and basement, 136 x 200 ft., brick and steel, plain foundation, Tremont St., to L. P. Soule & Son Co., 88 Tremont St. Archts. est. $150,000.

Mass., Williamstown—Dormitory — Williams College, Main St., 3 story, 100 x 220 ft., brick, plain foundation, to P. A. Smedley, Spring St. Archts. est. $200,000.

N. Y., Brooklyn—Bank—South Brooklyn Savings Institute, Atlantic Ave., brick, steel and stone, plain foundation, Court St. and Atlantic Ave., to Rufus H. Brown, 356 Pearl St. Archts. est. $500,000. Noted May 25.

N. Y., Brooklyn — Hospital — Methodist Episcopal Hospital, 6th St., 100 x 145 ft., brick, steel and stone addition, plain foundation, to W. Kennedy Constr. Co., 215 Montague St. Archts. est. $450,000. Noted Sept. 21.

N. Y., New York—Hotel—Hotel Roosevelt, c/o G. B. Post Sons, archts. and engrs., 101 Park Ave., 18 story, 215 x 215 ft., brick, steel and stone, plain foundation, Madison Ave. and 45th St., to Thompson-Starrett Co., 49 Wall St. Archts. est. $6,000,000. Noted Sept. 14.

N. J., Asbury Park—Bank—Asbury Park Trust Co., 601 Mattison Ave., brick, steel and stone, plain foundation, to Sobray-Whitcomb, 105 West 40th St., New York City. Archts. est. $150,000.

N. J., Plainfield—Hospital—Muhlesburg Hospital, brick, steel and stone addition, plain foundation, to L. V. Tallamy, 211 North Ave., Archts. est. $500,000. Noted Nov. 9.

Pa., Pittsburgh—School—Bd. Educ., Fulton Bldg., general contract 2 story and basement, 63 x 92 x 206 x 229 ft. addition to Beechwood School, brick, steel and limestone, Rockland Ave., to Williams & Haas, Empire Bldg. Total est. $450,000. Noted Nov. 16.

W. Va., Charleston—Store—Coyle Richardson Co., Capitol and Lee Sts., 4 story, mezzanine and basement, 98 x 110 ft., Lee and Dickinson Sts., to Higginbotham & Jones, Charleston, $185,000. Noted Nov. 2.

O., Cleveland — Commercial and Office — Medical Centre Co., c/o L. Abrams, 525 Engineers Bldg., 11 story, 110 x 165 ft., brick, steel and concrete, 1001 Huron Rd., to Hearn Constr. Co., Euclid-46th St. Market Bldg. Archts. est. $600,000.

Ill., Chicago—Apartment—C. Begler, 154 West Randolph St., 3 story, 68 x 90 ft., rein.-con., brick and steel, 1619-27 Farwell Ave., to J. Traff, 3948 North Robey St. Archts. est. $165,000.

Ill., Chicago — Apartment — J. J. Fairweather, 108 South La Salle St., 3 story, 108 x 185 ft., rein.-con., brick and steel, Junior Terrace and North Ashland Ave,. to A. T. Herlin, 6117 Evans Ave. Archts. est. $300,000. Noted Sept. 14.

Ill., Chicago—Apartment—J. J. Laughlin, 7531 Cottage Grove Ave., 3 story, 112 x 113 ft., rein.-con., brick and steel, 7248-58 Bennett Ave., to A. T. Herlin, 6117 Evans Ave. Archts. est. $200,000.

Ill., Chicago—Apartment—Peterson & Eck, 220 East 69th St., 3 story, 110 x 120 ft., rein.-con., brick and steel, 6742-50 East End Ave. to Turnquist Bros. Constr. Co., 217 East 69th Pl. Archts. est. $200,000.

Ill., Chicago—Apartment—W. H. Pruyn, archt., 122 South Michigan Blvd., 3 story and basement, 60 x 177 ft., rein.-con., brick and steel, West End and Lotus Ave., to Olson & Johnson, 4411 North Kedzie Ave. Archts. est. $150,000. Owner's name withheld. Noted Oct. 5.

Ill., Chicago—Apartment—G. K. Spoor, 908 Argyle St., 14 story, 90 x 137 ft., rein.-con., brick and steel, 822-40 Argyle St., to Paschen Bros., 111 West Washington St. Archts. est. $1,500,000.

Ill., Chicago—Apartment—J. Weinstein, 3620 Lexington Ave., will build 3 story and basement, 51 x 169 ft., rein.-con., brick and steel, 5001 West Washington St., by day labor. Archts. est. $150,000. A. L. Himelblau, 179 West Washington St., archt.

Ill., Chicago — Community House — St. Lukes Evangelical Church of Englewood, 62nd and Green Sts., 2 story, rein.-con., brick and steel, to Heidel & Beck, 6235 South Michigan Ave. Archts. est. $150,000.

Ill., Chicago—Hospital—Research & Educational Hospital of Illinois, Lincoln, Wood and Taylor Sts., 4 story, 62 x 107 ft., rein.-con., brick and steel addition, to C. A. Moses Constr. Co., 133 West Washington St. Archts. est. $500,000.

Ill., Chicago—Hotel—B. H. Rosen, c/o Dubin & Eisenberg, archts., 14 West Washington St., 3 story, 60 x 148 ft., rein.-con., brick and steel, 528-530 Brompton Ave., to Gamm Bros. Constr. Co., 1618 South Hamlin Ave. Archts. est. $200,000.

Ill., Chicago—Office and Store—Library Bureau, 1250 North Homan Ave., 7 story, 45 x 190 ft., rein.-con., brick and steel, 214-16 West Monroe St., to E. L. Archibald, Co., 111 West Washington St. Archts. est. $250,000. Noted Nov. 2.

Ill., Chicago—Store and Office—L. Hech, 1038 Belmont Ave., 2 story and basement, 65 x 220 ft., rein.-con., brick and steel, Agatice St. and Milwaukee Ave., to Behrens Constr. Co., 2149 Talman Ave. Archts. est. $200,000.

Ill., Chicago—School—Bd. Educ., 650 South Clark St., 3 story, 105 x 199 ft., rein.-con., brick and steel addition, 120th and Parnell Sts., to F. Burke Co., 35 South Dearborn St. Archts. est. $325,000.

Ill., Rockford—Apartment—W. J. Vander Meer, archt., 214 Mead Bldg., 5 story, 60 x 87 ft., rein.-con., brick and steel, Park Ave., to Nelson & Gustafson, Rockford, (street address not available). Archts. est. $150,000. Owner's name withheld.

Wis., Oshkosh—School—School Bd., 2 story, brick, tile and concrete, plain foundation, to L. F. Schroeder Co., 13 East 1st St., Fond du Lac, $156,121. Noted Nov. 9.

Ia., Dubuque — Convent — Sisters of St. Francis, St. Mary's Convent, 69 Emmett St., 4 story and basement, 56 x 170 x 288 ft., rein.-con., brick, tile and stone, general contract to P. Steenberg Constr. Co., 535 Endicott Bldg., St. Paul, Minn., $305,111. Noted Nov. 9.

Minn., Duluth—Jail—St. Louis Co., general contract, 4 story and basement, 49 x 132 ft., rein.-con. and stone, 2nd St. and 6th Ave., W., to Jacobson Bros., Columbia Bldg., $429,700. Archts. est. $500,000. Noted Oct. 5.

Neb., Omaha—High School—Bd. Educ., City Hall, 3 story, 174 x 369 ft., rein.-con., brick and steel, Ames Ave., to P. Kiewitzs Sons, 754 Omaha Natl. Bank Bldg., $623,000. Noted Nov. 2.

S. D., Rapid City — High School — Bd. Educ., 3 story and basement, 53 x 138 ft. rein.-con., brick, stone and tile, general contract to O. H. Olson, Rapid City, $116,800. Noted Oct. 19.

Mont., Butte — Lodge — Masonic Temple Assn., general contract 3 story and basement, 90 x 100 ft. addition, rein.-con., brick, tile and stone, to A. Broadland, Butte. Cost complete about $300,000.

Mo., St. Louis—Office—Famous Players Motion Picture Corp., c/o N. Frank, Arcade Bldg., 12 story, 120 x 130 ft., rein.-con., brick, stone and steel, Grand Blvd., to Black Masonry & Contg. Co., Ry. Exch. Bldg. Archts. est. $800,000. Noted Oct. 19.

Tex., Dallas—Apartment Hotel—Kean & Crawford Constr. Co., Slaughter Bldg., will build 3 story and basement brick and stucco, Gaston and Peak Sts., by day labor. $150,000. F. U. Woerner, Sumpter Bldg., archt. and engr.

Calif., Fresno—Office and Bank—Pacific Southwest Trust and Savings Bank, 10 or 15 story, fireproof construction, Mariposa and J Sts., to R. F. Felchlin Co., Bank of Italy Bldg., $750,000 or $1,000,000.

Calif., San Francisco—Apartment—Crosswings Community Apartments, c/o H. H. Gutterson, archt., 278 Post St., 9 story, basement and sub-basement, rein.-con. and steel, Sacramento and Mason Sts., to Clinton Constr. Co., 923 Folsom St., $1,000,000. Construction will start in spring. Noted Nov. 2.

Ont., Windsor—School—School Comn., 15 room addition to Wyandotte St. School, to S. E. Dinsmore Co., Royal Bank Bldg., $270,000.

Federal Government Work

PROPOSED WORK

Mass., South Boston (Boston P. O.)—Disposal Plant—Spec. 4758—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans ship sewage disposal system, here.

N. Y., Chelsea—Buildings—Treas. Dept., Wash., D. C., plans 12 buildings, complete, incl. mechanical equipment, for U. S. Veterans Hospital, here.

N. Y., Tupper Lake—Hospital—Spec. 4718—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon receives new bids for U. S. Veterans Hospital, here, Part 1, general construction of buildings exclusive of plumbing, heating and lighting work, Part 2, plumbing inside buildings; Part 3 inside heating and outside steam distribution; Part 4, inside electric lighting and outside electric distribution; Part 5 boiler house equipment. The above was previously advertised under the following Specification Nos. 4710-4718-4719-4725. Noted Oct. 19 and Nov. 2.

Pa., Phila.—Fuel Oil—U. S. Engineer, 815 Witherspoon Bldg., plans to purchase fuel oil.

Md., Annapolis—Natatorium—Spec. 4754—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans natatorium, here.

W. Va., Huntington—Lock Operating Machinery, etc.—U. S. Engineer, Huntington, plans lock operating machinery, etc., for Dam 30, Ohio River.

Wash., American Lake—Hospital—Quartermaster General, Munitions Bldg., Wash., D. C., soon receives bids for U. S. Veterans Hospital at Camp Lewis, here. Noted Sept. 28.

Wash., Puget Sound—Cranes—Spec. 4755—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to purchase electric elevator cranes, here.

Calif., San Diego—Telephone Cables, etc.—Spec. 4757—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans telephone conduit cables and terminals, here. Bid will be opened at local yard.

BIDS DESIRED

N. Y., New York—Dredging—Dec. 13, at office U. S. Engineer, 2nd Dist., dredging in Raritan River, 35,000 cu.yd. Noted Nov. 2.

Pa., Phila.—Breakwater—Dec. 21, by Supt. Lighthouses, Phila., breakwater at Harbor of Refuge Light Station, Delaware Bay, Del.; adv. this issue.

Pa., Pittsburgh—Lock Gates.—Dec. 20, at office U. S. Engineer, Pittsburgh, steel lock gates for Lock 1, Allegheny River. Noted Nov. 16; adv. this issue.

Del., Wilmington — Excavating, etc.—Dec. 20, at office U. S. Engineer, Wilmington, excavating cut-offs in St. Jones and Mispillion Rivers; adv. this issue.

W. Va., Huntington—Maneuver Boat—Dec. 15, at office of U. S. Engineer, Huntington, for steel hull maneuver boat, etc.; adv. this issue.

Wis., Milwaukee—Barges—Dec. 20, at office U. S. Engineer, Milwaukee, for steel barges; adv. this issue.

Wash., Puget Sound—Pier Extension—Spec. 4707—Dec. 20, by Bureau Yards & Docks, Navy Dept., Wash., D. C., extension to Pier 4, here Noted Sept. 28.

Calif., Livermore — Buildings, Electrical Work, etc.—Dec. 18, by Director, U. S. Veterans' Bureau, Arlington Bldg., Wash., D. C., construction 29 buildings, electrical, plumbing, heating and ventilating work, refrigerating machinery, laundry and kitchen equipment in U. S. Veterans' Hospital, here. C. R. Forbes, dir.; adv. this issue.

Calif., Mare Island—Riprapping Dike—Spec. 4700—Dec. 20 by Bureau Yards & Docks, Navy Dept., Wash., D. C., riprapping Dike 12, here. Noted Aug. 17.

Calif., Oakland—Changes—Dec. 11, by Treas. Dept., Wash., D. C., changes at side entrance, U. S. Post Office, here. J. A. Wetmore, acting superv. archt.; adv. this issue.

Calif., San Diego—Repairs—Spec. 4751—Dec. 20 by Bureau Yards & Docks, Navy Dept., Wash., D. C., repairs to coaling wharf, here. Noted Nov. 16.

BIDS RECEIVED

O., Chillicothe—Hospital—Quartermaster General, Munitions Bldg., Wash., D. C., opened bids Nov. 14, for U. S. Veterans' Hospital, here (1) work complete, from G. A. Fuller, Munsey Bldg., Wash., D. C., (1) $1,497,000 (2) $240,000 (3) $70,000 (4) $68,000 (5) $67,000 (6) $87,000 (7) $73,000 (8) $66,000 (9) $48,000 (10) $49,000 (11) $30,000 (12) $32,000 (13) $18,000 (14) $19,000 (15) $13,000 (16) $84,000 (17) $22,000 (18) $12,000 (20) $8,000 (21) $6,000 (22) add $10,000 (23) $12,000 (24) $5,000 (25) $18,000 (26) $3,500 (27) $8,800 (28) unit prices (a) $1.25 (b) $9 (c) $23 (d) $73 (e) $110 (f) $50 (g) $1.50 (h) $2.50 (i) $1.90 (j) $0.25; (395 days); Danis-Hunt Constr. Co., 907 Schwind Bldg., Dayton (1) $1.575,000 (2) $249,000 (3) $70,090 (4) $66,000 (5) $70,000 (6) $92,000 (7) $70,000 (8) $87,000 (9) $49,000 (10) $47,500 (11) $32,500 (12) $35,800 (13) $20,000 (14) $17,500 (15) $13,800 (16) $88,000 (17) $18,500 (18) $16,000 (19) add $1,200 (20) $10,000 (21) $6,980 (22) $19,700 (23) $8,000 (25) $17,000 (26) $7,500 (27) $9,500 (28) unit prices (a) $1 (b) $10 (c) $20 (d) $60 (e) $90 (f) common $45, face $59, hollow $40 (g) $1.50 (h) $3 (i) $2.50 (j) $0.20 (400 days); E. H. Latham, 60 East Broad St., Columbus, (1) $1,568,177 (2) $299,892 (3) $87,402 (4) $80,384 (5) $87,300

Federal Government Work (Continued)
(6) $107,715 (7) $85,664 (8) $94,172 (9) $60,005 (10) $59,687 (11) $42,921 (12) $42,398 (13) $24,606 (14) $24,606 (15) $16,902 (16) $102,024 (17) $23,072 (18) $18,404 (19) deduct $500 (21) $9,419 (22) add $8,687 (23) $14,000 (25) $15,125 (26) $2,000 (27) $6,000 (28) unit prices (a) $1.75 (b) $20 (c) $25 (d) $70 (e) $100 (f) $50 (g) $0.25 (h) $2.50 (i) $2.25 (j) $2.50 (456 days). Noted Oct. 12.

Okla., Shawnee—Post Office—Treas. Dept., Wash., D. C., for U. S. Post Office, here, from A. W. Lundberg, 5564-A Page Ave., St. Louis, Mo., limestone $93,226; sandstone $94,500; C. E. Goodhand, McCook, Neb., limestone $98,019; W. D. Lovell, 1415 8th St., Southeast, Minneapolis, Minn., limestone $99,945. Noted Oct. 26.

Utah, Vernal—Post Office—Treas. Dept., Wash., D. C., for U. S. Post Office, complete incl. mechanical equipment, here, from Western Eng. & Contg. Co., 512 Templeton Bldg., Salt Lake City, $47,500; Johnson Constr. Co., Fargo, N. D., $49,990. Noted Oct. 26

CONTRACTS AWARDED

R. I., Providence—Dredging—U. S. Engineer, maintenance dredging in Milford Harbor, Conn., 41,200 cu.yd., to J. S. Packard Dredging Co., 1004 Turks Head Bldg., $10,424. Noted Nov. 9.

N. Y., Buffalo—Dump Scows—U. S. Engineer, three 400 cu.yd. steel dump scows, to Penn Bridge Co., Beaver Falls, Pa., $92,120. Noted Oct. 12.

Pa., Phila.—Embankment and Riprap—U. S. Engineer, 815 Witherspoon Bldg., embankment and riprap in Delaware River at Artificial Island, to Canal Constr. Co., Inc., North Amer. Bldg., $66,000. Noted Aug. 24.

La., New Orleans—Mattresses—U. S. Engineer, 329 Custom House, furnishing and sinking 9,334 sq.yd. brush mattresses at mouth of Mississippi River, to R. S. Levy & Co., Venice, $13,854.

Calif., San Diego—Alterations—Spec. 4734—Bureau Yards & Docks, Navy Dept., Wash., D. C., alterations to Quarters C, Naval Base, Naval Training Depot, here, to J. D. Cornell and C. R. Rauch, 614 G Ave., National City, $1,425 (45 days). Noted Oct. 12.

Miscellaneous

PROPOSED WORK

Underground Station—Boston, Mass.—Boston Elevated Ry. Co., 108 Massachusetts Ave., had preliminary plans prepared, underground station, rein.-con., in Cambridge-Dorchester tunnel, Cambridge and Charles Sts. $600,000. Engineer not announced.

Gas Wells—Dunkirk, N. Y.—Republic Light, Heat & Power Co., Ellicott Sq., Buffalo, plans drilling 20 wells here. $200,000.

Gas and Electric Lines—Ithaca, N. Y.—See "Industrial Works."

Subway—Duboistown, Pa.—Pennsylvania R.R., town council and Lycoming Boro. plan 200 ft. subway connecting road and new Newberry-Duboistown bridge, to avoid grade crossing over Pennsylvania R.R. tracks. $40,000. A. C. Shand, Broad St. Sta., Phila., ch. engr. L. Mussina, Williamsport, engr.

Recreation Center—Johnstown, Pa.—City had plans prepared for recreation center incl. concrete bridge 50 ft. long over Stoney Creek, steel grandstand, concrete and steel bleachers, grounds enclosed with brick and terra cotta wall, swimming pool under grandstand. $75,000. G. E. Wild, Johnstown, archt.

Transmission Line—Sharon, Pa.—Shenango Valley Electric Light Co., 63 West State St., plans 6.5 mi. extension to lines and service from here to Orangeville, O.

Seawall and White Way—Bradentown, Fla.—Having surveys made seawall with white way on top. Election soon to vote on $100,000 bonds. Kirley & Myler, Bradentown, engrs.

Gas Maines—St. Petersburg, Fla.—Dec. 5, to vote on $50,000 bonds extending gas mains. E. C. Garvin, St. Petersburg, engr.

Seawall—New Orleans, La.—New Orleans Levee Bd., New Court House Bldg., plans 26,000 ft. seawall from West End to Seabright, reclaiming 48,475,000 sq.ft. of ground, of which 26,000,000 sq.ft. will be devoted to public use, 4,495,000 sq.ft. for streets and sidewalks, leaving 17,981,000 sq.ft. for suburban development, incl. 70,200 cu.yd. rein.-con. $1,400,000, 560,000 ft. creosoted piling, $252,000, lumber $175,000, 750,000 lb. iron and hardware $22,500 and 16,262,500 cu.yd. hydraulic fill $975,000.

Lighting System—Cleveland, O.—Plans installing whiteway lighting systems in St. Clair Ave. from East 79th to East 110th Sts., $50,000, East 150th St. from St. Clair to Massie Aves., $23,000, Superior Ave. from Ansel Rd. to East 125th St., $48,600, East 105th St. from Park Lane to Adams Ave., $51,000, Euclid Ave. from East 90th St. to University Circle and East 105th St. from Cedar Ave. to Park Lane, $44,000, Lorain Ave. from West 58th to West 117th Sts., $89,600. G. Beckwith, City Hall, engr.

Transmission Line—Orangeville, O.—See "Sharon, Pa."

Electric Lighting System — Shorewood (Milwaukee P. O.), Wis.—Voted $75,000 bonds to install electric lighting system throughout village. T. B. Olsen, clk. Engineer not selected.

Grain Elevator—Iowa City, Ia.—O. H. Carpenter, archt., 120½ East Washington St., preparing plans for grain elevator. Machinery catalogues wanted. Owners name withheld.

Road Oil and Road Signs—St. Paul, Minn.—Ramsey Co. plans to purchase road oil for 1923 $18,000; road signs $7,000. R. R. Godfrey, Court House, co. surv.

Transmission Line—Childress, Tex.—Texas Central Power Co. plans transmission line from here to Clarendon. $100,000. Engineer not announced.

Golf Course—Dallas, Tex.—Making plans 18 hole municipal golf course on McKinney and Haskell Aves., and Houston & Texas Central R.R. G. D. Fairtrace, city engr.

White Way—Dallas, Tex.—Making plans and takes bids in December white way at Oak Cliff. $25,000. G. D. Fairtrace, city engr.

Pipe Line—Depew, Okla.—Skelly Oil Co., Unity Bldg., Tulsa, plans 11 mi. pipe line in and around Depew. $25,000.

Transmission Line, etc.—Casa Grande, Ariz.—Electrical Dist. 1 making plans 25 mi. 45,000 volt transmission line, 90 mi. 11,000 volt and about 100 mi. laterals, also 1 substation. $200,000. F. C. Templeton, dir. S. J. Norman, Casa Grande, engr.

Stadium, etc.—Spokane, Wash.—Park Bd. approved preliminary plans for stadium at Down River Park, consisting of regulation football and baseball fields, track, grandstand, etc., 22,000 seating capacity and can be increased to 30,000, about 30,000 cu.yd. earth excav., etc. $75,000. A. Butler, city engr.

Stadium—Berkeley, Calif.—University of California takes bids in about month, stadium, oval shape, 750 ft. long, 575 ft. wide, coliseum design, single deck, 75,000 seating capacity, 10,000 cu.yd. concrete, 300,000 cu.yd. earthwork, 40,000 cu.yd. fill. Complete system of roads will be constructed around same. $1,100,000. G. Buckingham, 530 Bush St., San Francisco, designer. Baker & Carpenter, 58 Sutter St., San Francisco, consult. engrs. J. G. Howard, 1st Natl. Bank Bldg., San Francisco, university archt.

Quay Wall and Pier—Oakland, Calif.—Having plans prepared constructing rein.-con. quay wall and pier on western waterfront. Plan to vote on $1,000,000 bonds for project. R. Beebee, city harbor engr.

Gas Mains—Montreal, Que.—Montreal Light, Heat & Power Co., Craig St. W., plans 90 ft. 4 in. c.i. pipe in DeGaspe St., 452 ft. 4 in. c.i. pipe in Marlowe Ave., 746 ft. 4 in. c.i. pipe in Old Orchard Ave., 180 ft. 4 in. c.i. pipe in Percival Ave., 410 ft. 4 in. c.i. pipe in Marlowe Ave., 210 ft. 6 in. c.i. pipe in Oxford Ave., 105 ft. 2 in. c.i. pipe in Gagnon Ave., total $3,962, 9,700 ft. 20 in. c.i. pipe in Sta A, Elm Ave., $48,136, 2,640 ft. 12 in. c.i. pipe in Davidson St. from Rouen to St. Catherine Sts., $9,347, 540 ft. 8 in. c.i. pipe in Davidson St. from St. Catherine to Notre Dame Sts. $1,550, 3,720 ft. 12 in c.i. pipe in Bennett Ave. $24,969. E. S. Stanton, supt. gas distribution.

Grain Elevator—Goderich, Ont.—Goderich Elevator & Transit Co., 85 Horton St., London, having plans prepared rein.-con. grain elevator, along harbor, here, 1,000,000 bu. capacity. $250,000. Election in January to vote on bylaw. Private plans.

Memorial Tower—Toronto, Ont.—University of Toronto soon takes bids for war memorial tower to connect Hart House with main university building, stone on concrete foundation. $175,000. Spoatt & Rolph, North St., archts.

Park—Toronto, Ont.—Plans to drain and fill Smalls Pond, top it and fix it up for park, 150,000 cu.yd. dry earth fill, etc. $87,500. R. C. Harris, city engr.

BIDS DESIRED

Refined Asphalt, etc.—Brooklyn, N. Y.—Nov. 29, by E. Riegelmann, boro pres., Boro Hall, furnishing and delivering 60,000 gal. refined asphalt in liquid form, 700 cu.yd. binder stone, 3,000 cu.yd. asphalt sand, 600 net ton limestone or other suitable inorganic dust, 2,000 cu.yd. paving sand, 3,500 bbl. Portland cement, 3,300 cu.yd. 1½ in. gravel or 3,300 cu.yd. 1½ in. broken stone.

Crane—Blawnox, Pa.—Blawnox Co. taking bids one 10 ton crane.

Creosote Oil—Phila., Pa.—Dec. 1, by M. Smith, purch. agt. Pennsylvania R.R. 17th and Filbert Sts., 1,000,000 gal creosote oil, grades 1, 2, 3, 4 and 6, delivery into tanks at Greenwich, Phila.

Cranes—Pittsburgh, Pa.—Pittsburg Bolt & Screw Co., Preble Ave., taking bids one 3 ton and one 5 ton crane.

Fire Alarm, etc.—Richmond, Va.—Nov. 27, by Dir. Pub. Safety, Room [illegible]6, City Hall, complete fire alarm and police signal outfit.

Electrical Distribution System, etc.—Ridgeway, S. C.—Dec. 4, constructing electrical distribution system, 13,200 volt transmission line from here to Winnsboro with substations; water distribution system including 1½, 6 and 8 in. pipe, valves, hydrants, etc.; sanitary sewerage system, two 8 in. wells, one 60,000 gal. steel tank mounted on 100 ft. tower with alternate bid one 75,000 gal. tank mounted on 100 ft. tower. $50,000-$60,000. Ryan Eng. Co., Arcade Bldg., Columbia, engrs.

Pipe—Atlanta, Ga.—Nov. 29, by State Highway Dept., 3,692 lin.ft. 15-24 in. pipe in 10, 12 and 16 ft. lengths, one end reinforced with concrete bands, prices to be f.o.b. cars Gainesville, for Federal Aid Project 317, in Lumpkin Co. W. R. Neel, highway engr.

Steam Shovel — Tampa Fla. — E. W. Parker, Curry Bldg., in market 1 complete steam shovel for grading operations.

Shovel—Arkansas City, Kan.—Arkansas City Sand Co., Home Natl. Bank Bldg., is receiving bids 1 yd. revolving shovel. N. C. Dunn, purch. agt.

Landscape Work, etc.—Redwood City, Calif.—Dec. 4, by E. M. Nash, clk. San Mateo Co., laying out lawns, shrubbery, etc., furnishing and installing kitchen equipment, constructing walks, driveways, water supply tanks, piping and also incinerator for new county hospital. W. H. Toepke, Call Bldg., San Francisco, archt.

Steam Shovel—Ville Marie, Ont.—Angus & Taylor, taking bids for steam shovel.

BIDS RECEIVED

Asphalt Wearing Surface Sand—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., opened bids Nov. 15, furnishing and delivering 2,000 cu.yd. asphalt wearing surface sand, from C. W. Crane, 17 Battery Pl., $2,080; J. T. Cunningham, $2,200. Noted Nov. 9.

Foundation — Cleveland, O. — Cleveland Pub. Library Bd., Kinney Levan Bldg., opened bids Nov. 8, plain foundation for 4 story, 200 x 200 ft., concrete and steel library, East 3rd St. and Superior Ave., from Kelley-Demarest Co., Prospect-4th Bldg., $89,900; J. Gill & Son, Citizens Bldg., $97,500; J. J. Cassidy, Baltic Rd., $109,600. Noted Oct. 26.

Stone—Olympia, Wash.—C. V. Savage, secy. State Capitol, opened bids Oct. 30 furnishing Wilkerson stone for Legislative Building (facing to roof, not incl. dome or columns), from Walker Cut Stone Co., 1008 Puyallup St., Tacoma, $200,000. Noted Oct. 19.

CONTRACTS AWARDED

Sea Walls—Gloucester, Mass.—Dept. Pub. Wks., State House, Boston, 1,008 ft. granite faced concrete seawall, 47 ft. concrete seawall, 76 ft. granite seawall, here, to Bay State Dredging Co., 62 Condor St., East Boston (Boston P. O.), $54,630. Noted Nov. 16.

Broken Trap Rock Stone, etc. — New York, N. Y.—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., furnishing and delivering 4,000 cu.yd. broken trap rock stone and 2,000 cu.yd. broken trap rock stone screenings, to P. J. Kearns Contg. Co., 2306 Creston Ave., $2.93 per cu.yd. Noted Nov. 9.

Column Foundations—New York, N. Y.—Transit Comn., 49 Lafayette St., column foundations for part of Rapid Transit R.R., Flushing Route, to Gustin Morris Co., Creek St. and Anabel Pl., Long Island City, $91,000. Noted Nov. 16.

Spillway Gates—Turlock, Calif.—Dirs. Turlock Irrigation Dist., furnishing, fabricating and delivering spillway gates for Don Pedro Dam, Schedules 1 and 2, to Union Constr. & Drydock Co., Key Route Basin, Oakland; Schedules 3 and 5, to Stockton Iron Wks., Lindsay and Harrison Sts., Stockton; Schedule 4, to Joshua Hendy Iron Wks., 75 Fremont St., San Francisco. Noted Nov. 16.

Piers—Kincardine, Ont.—Dept. Pub. Wks., Ottawa, rebuilding piers, stone and cement work, here, to Keys Bros., Kincardine. Engrs. est. $26,000.

Dock—Vancouver, B. C.—Canadian Pacific Ry., Seymour St., new dock, 800 ft. long, 333 ft. wide, timber on creosoted piles or concrete slab on concrete piles, (7,000,000 ft.), to S. E. Junkins & Co., 837 Hastings St. W. $2,000,000.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ADVERTISEMENTS ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE.

OFFICIAL PROPOSALS

Bids: Nov. 27.

Road Work

Gainesville, Fla.

Sealed proposals addressed to the Board of Trustees, Special Road and Bridge District No. 1, Alachua County, Florida, will be received by the Board at its office in the Alachua County Court House in Gainesville, Fla., until 11:00 o'clock a.m., Monday, November 27, 1922, for surface treatment on the following roads: Gainesville Archer Road, approximately 80,000 square yards scarifying and reshaping old rock base, approximately 80,000 square yards surface treatment; Gainesville Fairbanks Waldo Road, approximately 150,000 square yards surface treatment.

Specifications and proposal forms may be secured at the office of the District Engineer, Room 7, Baird Bldg., Gainesville, Fla., at five dollars ($5.00) per set. Each bid must be accompanied with a certified check on an Alachua County Bank, or proposal bond executed by a reputable bonding company authorized to do business in the state of Florida, in the amount of 5 per cent of the contract price, made payable to the Chairman of the Board of Bond Trustees.

The Board reserves the right to reject any or all bids, or to award the work in one or more contracts.

W. R. THOMAS,
Chairman.
ALVA B. GROSS,
District Engineer.

Bids: Nov. 28.

State Road Work

Hartford, Conn.

Sealed proposals will be received by the State Highway Commissioner, 12 Washington Street, Hartford, Conn., until 2 p.m., Tuesday, November 28, 1922, for the following sections of state work, in accordance with plans and specifications on file in the office of the State Highway Commissioner and at the following places:

Town of Franklin: About 4,350 lin.ft. of waterbound macadam pavement on the Lebanon Road. Plans and specifications at the Town Clerk's office and at the office of A. W. Bushell, Division Engineer, Thayer Bldg., Norwich, Conn.

Town of Hamden: About 8,270 lin.ft. of reinforced cement concrete on State Street. (Note: Cement and reinforcing steel for this contract will be furnished by the State.) Plans and specifications at the Town Hall and at the office of E. C. Welden, Division Engineer, Chamber of Commerce Bldg., New Haven, Conn.

Town of Cornwall: About 3,900 lin.ft. of 7-in. native stone macadam on the Cornwall Hollow Road. Plans and specifications at the Town Clerk's office and at the office of D. C. Loewe, Division Engineer, Winsted, Conn.

All bids must be accompanied by a surety company bond or a certified check not less than one-third of the cost of the work. The State Highway Commissioner reserves the right to reject any and all bids.

Dated at Hartford, Conn., November 16, 1922.

C. J. BENNETT,
State Highway Commissioner,
12 Washington Street,
Hartford, Conn.

OFFICIAL PROPOSALS

Bids: Dec. 11.

Pumping Station Equipment

CONTRACT NO. 5

Monroe, Mich.

Sealed proposals will be received by the City Clerk of Monroe up to 7:30 o'clock p.m., Eastern Standard Time of the 11th day of December, 1922, for the furnishing and installing of the following pumping station equipment in the City Water Works.

One 3 m.g.d. steam pumping engine.
One steam turbine-driven electrical generator.
Two 150 hp. water tube boilers.
Two boiler feed pumps.
One feed water heater.
High pressure steam piping.
Smoke breeching.
One hand-power traveling crane.
One platform scale.
Two 1 m.g.d. motor-driven centrifugal pumps.
One 2 m.g.d. motor-driven centrifugal pump.
One sump pump.
Two coal trucks.
One switchboard.
Painting all machinery and piping.

The specifications under which the work is to be done may be examined at the office of the City Clerk, Monroe, Michigan, or at the office of Hoad, Decker, Shoecraft and Drury, Consulting Engineers, Ann Arbor, Michigan, and copies of the same may be obtained by making a deposit of five dollars, which will be refunded upon their return in good condition or their use in a submitted proposal.

A certified check in an amount of three thousand dollars ($3,000.00) will be required with each proposal.

The right to accept any proposal, to reject any or all proposals, and to waive defects in proposals is reserved by the city.

JAS. H. GILMORE, Mayor.
F. M. KRESSBACH, City Clerk.
HOAD, DECKER, SHOECRAFT
AND DRURY,
Consulting Engineers,
Ann Arbor, Michigan.

Bids: Dec. 4.

Street Paving and Draining

Earlington, Ky.

Sealed proposals will be received up to 2 o'clock p.m., December 4, 1922, by the Mayor of the city of Erlington, Ky., for the paving and draining the several streets in the city of Earlington, Ky., with warrenite bitulithic pavement or vitrified brick pavement on a rolled stone base, the type to be selected by the City Council after the bids have been opened and compared.

Estimated Quantities.—Earth excavation, 23,570 cu.yd.; paving surface, 46,300 sq. yd.; crushed stone, 13,840 cu.yd.; curb and gutter, 22,870 lin.ft.; storm sewers, 12-in. to 42-in., 4,776 lin.ft.; manholes, 23; inlets, 62; concrete, 1:2½:5, 162.44 cu.yd.; 1:2:4, 84.02 cu.yd.; 1:2:3, 1.27 cu.yd.; reinforcing steel, 10,215 lb. These quantities subject to modification.

The City Council reserves the right to reject any or all bids. Each bid must be accompanied by a certified check for $250, payable to the Mayor of the city of Earlington, Ky.

Plans and specifications on file at the office of R. C. Giffin, Civil and Mining Engineer, Madisonville, Ky., and may be inpected there or a copy may be obtained upon deposit of $15, which deposit will be returned upon the return of the plans in good condition.

(Signed) C. B. JOHNSON, M. D.,
Mayor.

OFFICIAL PROPOSALS

Bids: Dec. 6.

Bridge

Freehold, N. J.

Notice is hereby given that sealed bids will be received by the Board of Chosen Freeholders of the County of Monmouth for the Reconstruction of Grand Avenue Bridge, No. N-14, over Sunset Lake; consisting of three forty foot spans and thirty foot roadway, and opened and read in public at the rooms of said board, Court House, Freehold, New Jersey, on December 6th, 1922, at 11.00 a.m.

Drawings and specifications for the proposed work, prepared by George K. Allen, Jr., County Engineer, have been filed in the office of said Engineer at 60 Broad street, Red Bank, New Jersey, and may be inspected by prospective bidders during business hours. The standard proposal form is attached to the specifications, copies of which will be furnished on application to the Engineer.

Plans and specifications will be furnished to prospective bidders upon payment of ten dollars ($10.00), which amount will be refunded upon return of plans and specifications before the time specified for the opening of bids.

Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of the bidder and name of proposed work on the outside, addressed to the Board of Chosen Freeholders of the County of Monmouth and must be accompanied by a certified check for a sum not less than ten (10) per cent of the amount bid on the work, payable to the order of the County Treasurer and a surety company certificate stating that said surety company will provide the bidder with the required bond, and must be delivered at the place and before the hour above named.

The Board of Chosen Freeholders of the County of Monmouth reserves the right to reject any or all bids if deemed to the best interests of the County so to do.

By order of the Board of Chosen Freeholders of the County of Monmouth.

BYRANT B. NEWCOMB, Director.
Attest: CHAS. E. COLE, Clerk.
Freehold, N. J., November 8th, 1922.

Bids: Dec. 1.

Cast Iron Pipe and Castings

San Juan, Porto Rico.

Sealed proposals for the furnishing of about 20,020 tons of cast iron pipe and of 250 tons of special castings, or its equivalent in steel pipe and specials, delivered at San Juan, Porto Rico, for the City of San Juan, will be received in the office of the Commissioner of Public Service until December 1, 1922, at 10 a.m.

All plans, specifications, instruction to bidders, blanks, forms for proposals and all other information may be obtained at the office of the City Commissioner of Public Works at San Juan, Porto Rico.

The right is reserved to reject any and all bids.

MARTIN TRAVIESO,
Commissioner of Public Service.

OFFICIAL PROPOSALS

Bids: Dec. 8.

Bridge Superstructure, Machinery and Electrical Equipment

Seattle, Wash.

Sealed proposals will be received by the Board of Public Works of the City of Seattle, up to 10 o'clock a.m., Friday December 8, 1922, in room 234, County-City Building, for the fabrication and erection of the Super-structure, Machinery and Electrical Equipment of a Steel Bascule Bridge and two Side Spans over the West Waterway at West Spokane Street, under authority of Ordinance No. 43397.

The structure will comprise a double-leaf bascule span 288 feet center to center of trunions, 2 approach spans each about 140 feet long and a steel girder span about 136 feet long. The width of the bascule span will be 45 feet center to center of trusses and of the side spans 52 feet center to center of trusses, and of the girder span about 40 feet.

No proposal will be considered except as same is made strictly in conformity with the advertisement therefor and upon the forms of proposals furnished by the Board of Public Works, bound together with the specifications, general clauses and form of contract which must be submitted unbroken and unaltered in every particular.

This improvement shall be made in accordance with the respective plans and specifications now on file in the offices of the Secretary of the Board of Public Works and the City Engineers, respectively, and in acordance with plans prepared by the Strauss Bascule Bridge Company, which will also be available at the above offices. Bidders must make proposals on both the City of Seattle plans and the Strauss Bascule Bridge Company's plans.

The successful bidder will be required to file with the City Comptroller a bond in the sum specified in the specifications.

Each bid must be accompanied by money, a satisfactory surety company bid bond approved by the Mayor and City Comptroller as to sufficiency and the Corporation Counsel as to form, or a certified check payable to the order of the City Comptroller of the City of Seattle for a sum not less than five (5) per cent of the total amount of bid, and no bid will be considered unless so accompanied.

A deposit of Twenty-five Dollars ($25.00) will be required for each set of plans and specifications, which will be returned upon return of the plans in good order.

Special attention of bidders is called to the State Law and City Charter regarding the number of hours constituting a day's work, minimum wage scale, American citizenship and heads of families.

The Board of Public Works reserves the right to reject any or all bids.

By order of the Board of Public Works.

C. B. BAGLEY,
Secretary.

First publication June 20, 1922.

Bids: Dec. 12.

Motor Driven Water Works Pumps

Wheeling, W. Va.

Sealed proposals for the design, construction, erection and putting in operation of three (3) low service and three (3) high service motor driven, centrifugal pumping engines in units of 10, 15 and 20 million gallons, will be received by the city of Wheeling, W. Va., until 12 o'clock noon, Eastern Standard Time, on the 12th day of December, 1922, and will then be opened and read publicly.

Official proposal blanks, instructions to bidders, specifications, form of contract and bond may be seen at the office of the City Clerk, Wheeling, W. Va., or two (2) copies of each may be obtained by bona fide bidders upon application to The J. N. Chester Engineers, Pittsburgh, Pa., or to the city of Wheeling, W. Va., upon deposit of twenty-five dollars ($25.00), which amount will be refunded to bidders on receipt of a bona fide bid or upon the return of both copies in good order.

The right is reserved to reject any or all bids.

C. H. DOWLER,
City Manager.

Attest:
W. M. EVANS,
City Clerk.

OFFICIAL PROPOSALS

Bids: Nov. 29.

Filtration Plant and Reservoir

San Juan, Porto Rico.

Sealed proposals for the furnishing of all labor and material for the construction of a 8,000,000 gals. filtration plant and a 10,500,000 gals. filtered water concrete reservoir for the City of San Juan will be received in the office of the Commissioner of Public Service until November 29, 1922, at 10 A.M.

All plans, specifications, instruction to bidders, blanks, forms for proposals and all other information may be obtained at the office of the City Commissioner of Public Works at San Juan, Porto Rico.

The right is reserved to reject any and all bids.

MARTIN TRAVIESO,
Commissioner of Public Service.

A Bonding Company's Suggestion to Official Proposal Advertisers

"A large part of our contract bond business is submitted to us by wire, and I am a constant reader of the Official Proposals in order to find out the size and nature of the work that is referred to in the bond application. Very frequently I am unable to get any clear idea of what the advertisers are asking bids on, and of course the prospective bidder or contractor is also at a loss to know what kind of a job is being advertised.

"Traveling expenses are heavy at the present time, and contractors pay out considerable sums during the course of a year in investigating prospective contracts. This of course is a large charge that the owners eventually pay, and anything that will reduce the general overhead of contract work will eventually be to the advantage of the owner.

"One way to reduce this overhead is to word the advertisement so that the contractor sitting in his office will know whether or not he should investigate and prepare a bid on the proposed work."

Bids: Dec. 11.

Labor-Material Percentage Contract

New Orleans, La.

Sealed proposals will be received at the Sewerage and Water Board, Room 401, No. 526 Carondelet Street, New Orleans, La., up to 12 o'clock noon of Monday, December 11th, 1922, on Labor-Material Percentage Contract for year 1923.

Specifications and blank forms of proposal may be obtained at the office of the Board.

The right is reserved to reject any or all bids.

October 12th, 1922.

A. G. MOFFAT,
Secretary.

GEO. G. EARL,
General Superintendent.

OFFICIAL PROPOSALS

Bids: Dec. 12.

Engines and Boilers

Wheeling, W. Va.

Sealed proposals for the design, construction, erection, putting in operation and testing of two (2) engine driven centrifugal low service pumping engines; one turbine driven centrifugal high service pumping engine, three (3) 350 hp. boilers with stokers and the dismantling, moving and re-erecting of the existing Allis-Chalmers pumping engine will be received by the city of Wheeling, W. Va., until 12 o'clock noon, Eastern Standard Time, on the 12th day of December, 1922, and will then be opened and read publicly.

Official proposal blanks, instructions to bidders, specifications, form of contract and bond may be seen at the office of the City Clerk, Wheeling, W. Va., or two (2) copies of each may be obtained by bona fide bidders upon application to The J. N. Chester Engineers, Pittsburgh, Pa., or to the city of Wheeling, W. Va., upon deposit of twenty-five dollars ($25.00), which amount will be refunded to bidders on receipt of a bona fide bid or upon the return of both copies in good order.

The right is reserved to reject any or all bids.

C. H. DOWLER,
City Manager.

Attest:
W. M. EVANS,
City Clerk.

Bids: Dec. 18.

Refuse Incinerator

Allentown, Pa.

Sealed proposals will be received by the undersigned at his office, Room 301, City Hall until 9:30 o'clock A.M., Monday, December 18, 1922, for the construction of a Refuse Incinerator.

The work to be done consists of the furnishing, installing, and testing ready for operation, on foundations to be constructed by the City of Allentown a refuse incinerator with all appurtenances, of a capacity of 70 tons per 24 hours. The City of Allentown will construct under separate contracts the building, foundations for incinerator and appurtenances and chimney from plans submitted by the successful bidder.

All proposals must be made upon forms provided therefor and accompanied by a certified check for the sum of Five Thousand ($5,000.00) Dollars.

Specification and forms may be obtained at the office of the City Engineer, City Hall, Allentown, Pennsylvania, upon depositing the sum of Fifty ($50.00) Dollars which amount will be returned upon the return of the specifications.

The City of Allentown reserves the right to reject any or all bids.

M. W. GROSS,
Mayor.

H. F. BASCOM,
City Engineer.

Bids: Nov. 25.

Reservoir Dam

Bluefield, W. Va.

Sealed proposals or bids for the construction of a clay or earthern dam, containing about 40,000 cubic yards of material, to be sluiced into place, will be received at the office of the Bluefield Water Works & Improvement Company, at Bluefield, West Virginia, until three o'clock p.m. on the 25th day of November, 1922, when they will be publicly opened and read. All proposals shall be enclosed in an envelope furnished by the above styled company and shall be accompanied by a certified check on some national bank, in the sum of five (5%) per cent of the amount of the proposed bid. The contractor to whom the award is made will be required to furnish surety company bond in the sum of thirty-five (35%) per cent of the amount of the contract, within thirty days after official notice of the award of contract and in accordance with the terms of the specifications. The right is reserved to reject any or all bids. Drawings, specifications and blank forms of proposals may be consulted at the office of company, 601 Princeton Avenue, Bluefield, West Virginia, or they will be forwarded by mail upon request if $4 accompanies the order. This amount will be refunded upon return of the Plans and Specifications in reasonably good order.

BLUEFIELD WATER WORKS &
IMPROVEMENT COMPANY
WM. McCARTHY, Superintendent.

November 8th, 1922.

OFFICIAL PROPOSALS

Bids: Nov. 29.

Delaware River Bridge Main Towers

Contract No. 6

Philadelphia, Pa.

Sealed proposals for the construction of the two Main Towers of the bridge over the Delaware River connecting the City of Philadelphia, Pa., and the City of Camden, N. J., will be received by the Delaware River Bridge Joint Commission at Room 806, Widener Building, Philadelphia, Pa., until 3:00 o'clock P.M. Eastern Standard Time, November 29, 1922, when they will be publicly opened and read. The contract will be awarded, or all bids rejected, within fourteen days after the bids are opened. The right is reserved to reject any or all bids.

The two piers on which the towers are to be erected are located in the Delaware River near the pier head lines on the Pennsylvania and New Jersey sides of the river at points approximately opposite to Race Street in Philadelphia and Pearl Street in Camden. The work will include the furnishing, fabricating, painting and erecting of the two steel towers complete, with top saddle castings, as shown in the contract drawings, ready to receive the cables. The work comprises approximately 9,500 tons of steelwork, and must be completed within a period of fifteen months.

Bids must be made upon the blank proposal form, which, together with specifications, bond and contract form, and contract drawings, may be obtained at the office of the Joint Commission upon deposit of $25, which deposit will be refunded upon the receipt of bid or upon their return in good condition.

Each proposal must be accompanied by a certified check for seventy-five thousand dollars, drawn upon a national or state bank or trust company having an office either in Philadelphia or Camden, and payable to the Delaware River Bridge Joint Commission, and sureties' consent must be shown. The bidder or bidders to whom the concract is awarded will be required to give bond in the sum of fifty per cent of the amount of the concract.

WILLIAM C. SPROUL, Chairman,
JOSEPH K. COSTELLO, Secretary,
DELAWARE RIVER BRIDGE JOINT COMMISSION

Bids: Dec. 5.

Gate-Valves and Hydrants Contract 213

New York, N. Y.

Sealed bids will be received by the Board of Water Supply, at its offices, twenty-second floor, Municipal Building, Park Row, Center and Chambers streets, New York City, until 11 a.m., Eastern Standard time, on Tuesday, December 5, 1922, for Contract 213, for furnishing and delivering gate-valves and hydrants for the Mt. Prospect, Park Slope, Fort Hamilton and Clove conduits and Narrows Siphon No. 2 of the Catskill aqueduct, all as set forth in the specifications. All deliveries shall be made, with all transportation charges prepaid, at designated storage yards within the limits of the City of New York.

At the above place and time the bids will be publicly opened and read. Pamphlets containing information for bidders, forms of bid and contract, specifications, contract drawings, etc., can be obtained at the office of the Secretary at the above address, by depositing the sum of ten dollars ($10) in cash or its equivalent for each pamphlet. For further particulars apply to the office of the Chief Engineer at the above address.

GEORGE J. GILLESPIE,
President,
JAMES P. SINNOTT,
PHILIP F. DONOHUE,
Commissioners, Board of Water Supply.
BENJ. F. EINBIGLER, Secretary.

OFFICIAL PROPOSALS

Bids: Nov. 27.

Pumps and Chain Drive

Saranac Lake, N. Y.

Sealed bids will be received by the Sewer and Water Board of the Village of Saranac Lake, N. Y., until 8:00 o'clock p.m., on Monday, November 27, 1922, for furnishing two 3,000,000 gallon horizontal double-acting duplex plunger type pumps and also, at the same time, bids for furnishing a chain drive equipment for each pump, separate bids will be received for the pumps and the chain drive.

Forms of proposal, contract and specifications will be furnished upon application to S. A. Miller, Clerk of the Sewer and Water Board, or to John L. Collins, Engineer.

A certified check to the amount of $1,500.00, drawn payable to S. A. Miller, Clerk, must accompany the bids for pumps and to the amount of $50.00 with the bids for chain drive.

The Board reserves the right to reject any or all bids.

S. A. MILLER,
Clerk of the Board.
JOHN L. COLLINS,
Consulting Engineer.

Contractors Everywhere Read These Advertisements

to see where bids are desired on contracts suited to their available plant and organization. The suggestion is therefore made to advertisers that they word their advertisements so that the contractor will get a good idea of the size and kind of work to be let, and perhaps the plant needed. This should result in an increased number of desirable bidders.

Bids: Nov. 27.

Water Works and Sewerage Improvements

Kings Mountain, N. C.

Sealed proposals will be received by the Board of Commissioners of the town of Kings Mountain, North Carolina, until 12 o'clock M., Monday, November 27, 1922, for making water works and sewerage improvements.

The work includes: Construction of a 500,000-gallon reinforced concrete reservoir; small pumping station of reinforced concrete and brickwork; reinforced concrete sewage sedimentation tank; furnishing and laying two (2) miles of water mains six (6) to fourteen (14) inches in diameter, with accessories; building two (2) miles of sewers, and furnishing eight (8) inch and ten (10) inch sewer pipe.

The principal quantities involved are:

900 cu.yd. of earth excavation for structures.
170 cu.yd. of 1-1½-3 concrete.
255 cu.yd. 1-2-4 concrete.
47,000 lb. reinforcing steel.
2,100 lin.ft. fourteen (14) inch water mains.
6,470 lin.ft. twelve (12) inch water mains.
460 lin.ft. ten (10) inch water mains.
2,700 lin.ft. six (6) inch water mains.
6,200 lin.ft. eight (8) inch sewer mains.
1,650 lin.ft. ten (10) inch sewer mains.
40 valves and hydrants.

Plans will be on file and may be seen at the office of the Town Clerk, Kings Mountain, N. C., and at the office of The Ludlow Engineers, Winston-Salem, N. C., after November 10, 1922.

For the convenience of prospective bidders, the engineers will furnish copies of the plans upon application accompanied by a check for $10 to cover the cost, or separate prints will be furnished at $1 each.

Each bid must be accompanied by a certified check in the sum of $2,500, or 5 per cent of the amount of partial bids.

Proposals will be opened publicly with the usual rights reserved.

W. H. McGINNISS, Mayor.
GEO. E. LOVELL, Sec. and Treas.
THE LUDLOW ENGINEERS,
Winston-Salem, N. C.,
J. L. Ludlow, Consulting Engineer.

OFFICIAL PROPOSALS

Bids: Dec 5.

Bridge

Cape May, N. J.

Notice is hereby given that sealed bids will be received by the Board of Chosen Freeholders of the County of Cape May for the construction of a bridge across Grassy Sound Channel, including Strauss Bascule Draw Span, Cresoted Timber Trestle and Abutments with Graveled Approaches on Sand Fill, on the line of the North Wildwood to Burleigh Road in Middle Township, Cape May County, N. J., and opened and read in public at Cape May Court House, Cape May County, N. J., on Tuesday, December 5th, 1922, at 12 o'clock noon.

Drawings, specifications and forms of bid, contracts and bond for the proposed work, prepared by R. Fendall Smith, County Engineer, and approved by the State Highway Commission, have been filed in the office of the said engineer at Marmora, Cape May County, N. J., and of said State Highway Commission, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue prints of the drawings, by the Engineer on proper notice, and a deposit of $25.00, which will be refunded upon the return of the Plans and Specifications in good condition.

Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder and name of Bridge and road on the outside, addressed to The Board of Chosen Freeholders of the County of Cape May, N. J., and must be accompanied by a Certificate from a Surety Company and a certified check for not less than ten (10) per cent of the amount bid, provided said check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the place and the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to engineer.

By order of The Board of Chosen Freeholders, of the County of Cape May, N.J.

IRVING FITCH, Clerk.
Sea Isle City, N. J.

Bids: Nov. 28.

Highway Work

Montpelier, Vt.

Sealed Bids will be received by the office of the Commissioner of Highways, Montpelier, Vermont, until 2 p.m. November 28, 1922, and then publicly opened and read, for the construction of 1.16 miles of bituminous macadam road in Highgate, Vermont; and 4.78 miles of gravel road in Danville, Vermont.

Plans and specifications for each of the above may be seen at the office of the State Engineer at Montpelier, Vermont. Plans and specifications for the Highgate Project may be seen at the residence of Mr. Rupert A. Phelps, Highgate Springs, Vermont, and for the Danville Project at the Town Clerk's Office, Danville, Vermont.

Bidders should satisfy themselves before bidding as to the character of the work and the obstacles to be encountered. The estimated quantities are not guaranteed, but are given as a basis for the comparison of bids.

A certified check for $1,500 on the Highgate Project and $4,000 on the Danville Project, payable to the State Highway Board, must accompany each bid.

The right is reserved to reject any or all bids.

By Order of the State Highway Board.

THURMAN W. DIX,
Commissioner of Highways.
Dated Nov. 6, 1922.

CONTRACT BONDS
¶Mere chance may put a man in a prominent position, but it never held him there. ¶Chance or guesswork had no part in placing Swart Service in a self-created class. ¶Service that really serves placed it and holds it there.
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92 William Street, New York
Contract Bonds *Compensation Insurance*

U. S. GOVERNMENT

SEALED PROPOSALS will be received by the Director, U. S. Veterans' Bureau, Arlington Building, Washington, D. C., until 11 o'clock a.m., December 18, 1922, and then and there publicly opened for the construction (exclusive of mechanical equipment) of 29 reinforced concrete buildings of the U. S. Veterans' Hospital at Livermore, California. Drawings and specifications may be obtained upon application to the office of Matthew O'Brien, Architect, No. 68 Post Street, San Francisco, California. Deposit of a certified check or postal money order for $250, payable to Matthew O'Brien, is required as security for the safe return of the drawings and specifications. C. R. Forbes. Director, U. S. Veterans' Bureau, November 18, 1922.

SEALED PROPOSALS will be received by the Director, U. S. Veterans' Bureau, Arlington Building, Washington, D. C., until 11 o'clock a.m., December 18, 1922, and then and there publicly opened for electrical work in connection with 29 buildings at U. S. Veterans' Hospital at Livermore, California. Drawings and specifications may be obtained upon application to the office of Matthew O'Brien, Architect, No. 68 Post Street, San Francisco, California. Deposit of a certified check or postal money order for $250, payable to Matthew O'Brien, is required as security for the safe return of the drawings and specifications. C. R. Forbes, Director, U. S. Veterans' Bureau, November 18, 1922.

SEALED PROPOSALS will be received by the Director, U. S. Veterans' Bureau, Arlington Building, Washington, D. C., until 11 o'clock a.m., December 18, 1922, and then and there publicly opened, for plumbing, heating and ventilating work in connection with 29 buildings of the U. S. Veterans' Hospital at Livermore, California. Drawings and specifications may be obtained upon application to the office of Matthem O'Brien, Architect, No. 68 Post Street, San Francisco, California. Deposit of a certified check or postal money order for $250, payable to Matthew O'Brien, is required as security for the safe return of the drawings and specifications. C. R. Forbes, Director, U. S. Veterans' Bureau, November 18, 1922.

SEALED PROPOSALS will be received by the Director, U. S. Veterans' Bureau, Arlington Building, Washington, D. C., until 11 o'clock a.m., December 18, 1922, and then and there publicly opened, for refrigerating machinery in the U. S. Veterans' Hospital at Livermore, California. Drawings and specifications may be obtained upon application to the office of Matthew O'Brien, Architect, No. 68 Post Street, San Francisco, California. Deposit of a certified check or postal money order for $50, payable to Matthew O'Brien, is required as security for the safe return of the drawings and specifications. C. R. Forbes, Director, U. S. Veterans' Bureau, November 18, 1922.

SEALED PROPOSALS will be received by the Director, U. S. Veterans' Bureau, Arlington Building, Washington, D. C., until 11 o'clock a.m., December 18, 1922, and then and there publicly opened for laundry equipment in the U. S. Veterans' Hospital at Livermore, California. Drawings and specifications may be obtained upon application to the office of Matthew O'Brien, Architect, No. 68 Post Street, San Francisco, California. Deposit of a certified check or postal money order for $50, payable to Matthew O'Brien, is required as security for the safe return of the drawings and specifications. C. R. Forbes, Director, U. S. Veterans' Bureau, November 18, 1922.

SEALED PROPOSALS will be received by the Director, U. S. Veterans' Bureau, Arlington Building, Washington, D. C., until 11o'clock a.m., December 18, 1922, and then and there publicly opened, for kitchen equipment in the U. S. Veterans' Hospital at Livermore, California. Drawings and specifications may be obtained upon application to the office of Matthew O'Brien, Architect, No. 68 Post St., San Francisco, California. Deposit of a certified check or postal money order for $50, payable to Matthew O'Brien, is required as security for the safe return of the drawings and specifications. C. R. Forbes, Director, U. S. Veterans' Bureau, November 18, 1922.

U. S. GOVERNMENT

U. S. ENGINEER OFFICE, PITTSBURGH, PA. Sealed proposals for constructing and delivering one steel dipper dredge hull afloat at Pittsburgh, Pa., will be received at this office until 12 noon (Eastern time), December 1, 1922, and then opened. Information on application.

U. S. ENGINEER OFFICE, PITTSBURGH, PA. Sealed proposals will be received here until 12 noon (Eastern time), November 25, 1922, and then opened, for furnishing and delivering three steel deck barges. Further information on application.

U. S. ENGINEER OFFICE, MILWAUKEE, WIS., Oct. 25, 1922. Sealed proposals will be received here until 2 p.m., Nov. 27, 1922, and then opened, for the construction of one dipper dredge hull and house. Further information on application.

PROPOSALS FOR BOILERS.—Office, Mississippi River Commission, 1st and 2nd Districts, Customhouse, Memphis, Tenn. Sealed proposals will be received here until 11 a.m., Dec. 2, 1922, and then opened, for furnishing boilers for hydraulic grader No. H.G. 2-1-1-2-23. Further information on application.

PROPOSALS FOR STEEL BARGES.—Office, Mississippi River Commission, 1st and 2nd Districts, Customhouse, Memphis, Tenn. Sealed proposals will be received here until 11 a.m., Dec. 2, 1922, and then opened, for furnishing six steel barges. Further information on application.

PROPOSALS FOR MACHINERY FOR HYDRAULIC GRADER.—Office, Mississippi River Commission, 1st and 2nd Districts, Customhouse, Memphis, Tenn.—Sealed proposals will be received here until 11 a.m., Dec. 2, 1922, and then opened, for furnishing turbines, pumps, feed-water heater, boiler-feed pumps, and electric-light plant. Further information on application.

U. S. ENGINEER OFFICE, ROCK ISLAND, ILL., Nov. 10, 1922. Sealed proposals will be received here until 10 a.m., December 11, 1922, and then opened, for construction and delivery of ten (10) 100 ft. x 30 ft. x 6 ft. steel barges, complete as specified. Further information on application.

SEALED PROPOSALS will be received and publicly opened by the Director of the U. S. Veterans Bureau in the office of the Quartermaster General, 2306 Munitions Building, Washington, D. C., at 11 a.m., December 12, 1922, for the construction of a Neuro-Psychiatric Hospital at Knoxville, Iowa for the Veterans Bureau. Work will include the construction of fifteen buildings of reinforced concrete and brick, complete with water, lighting, heating, and sewer systems, roads and walks. Plans and specifications may be obtained after November 14, 1922 from the Quartermaster General, 2312 Munition Building, Washington, D. C., upon deposit of $100. One set of plans and specifications will be on exhibition at each of the following stations: Constructing Quartermasters at 30 Whitehall Street, New York City and Scott Field, Belleville, Illinois; also Quartermaster Supply Officers at 1819 West Pershing Road, Chicago, Illinois and Second and Arsenal Streets, St. Louis, Mo.

U. S. ENGINEER OFFICE, JACKSONVILLE, FLA.—Sealed proposals will be received here until 12 m., Nov. 27, 1922, and then opened, for dredging in Key West Harbor, Fla. Further information on application.

PROPOSALS FOR NINE STEEL BARGES.—Office Mississippi River Commission, Third District, P. O. Box 404, Vicksburg, Miss. Sealed proposals will be received here until 11 a.m. December 14, 1922, and then opened, for furnishing nine steel barges. Further information on application.

UNITED STATES ENGINEER OFFICE, DETRIOT, MICH.—Sealed proposals will be received here until 11 a.m., December 15, 1922, and then opened, for dredging and rock excavation in Livingstone Channel, Detroit River, Mich. Further information on application.

U. S. GOVERNMENT

UNITED STATES ENGINEER OFFICE, NORFOLK, VA. Sealed proposals will be received here until 12 M., December 4, 1922, and then opened, for constructing two power houses, with wells, fuel tanks, railroad tracks, etc., Fort Story, Cape Henry, Va. Further information on application.

U. S. ENGINEER OFFICE, HUNTINGTON, W. VA., November 15, 1922. Sealed proposals will be received here until 11 a.m. (Eastern Time), December 15, 1922, and then opened, for furnishing and delivering steel hull maneuver boat, etc., for Dam No. 30, Ohio River. Further information on application.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., November 14, 1922. SEALED PROPOSALS will be received and opened in this office at 3 p.m., Dec. 11, 1922, for furnishing the materials and labor required for changes at Side Entrance at the U. S. Post Office, Oakland, Calif. Drawings and specifications may be obtained from the Custodian, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

U. S. ENGINEER OFFICE, MILWAUKEE, WIS. Sealed proposals will be received here until 2 p.m., Dec. 20, 1922, and then opened for constructing and delivering steel barges. Further information on application.

U. S. ENGINEER OFFICE, PITTSBURGH, PA. Sealed proposals will be received here until 12 noon (Eastern Time), December 20, 1922, and then opened for furnishing and delivering steel lock gates for Lock No. 1, Allegheny River. Further information on application.

U. S. ENGINEER OFFICE, WILMINGTON, DEL. Sealed proposals will be received here until 11 a.m., December 20, 1922, and then opened for excavating cutoffs in St. Jones and Mispillion Rivers, Del. Further information on application.

SEALED PROPOSALS will be opened by the Supt. of Lighthouses, Philadelphia, Pa., 2 p.m., Dec. 21, 1922, for building stone and reinforced concrete breakwater at Harbor of Refuge Light Station, Delaware Bay, Del. Information on application.

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